

HUMBROL

Modeler's Airbrush

it's new!

FANTASTIC VALUE!

A TOP QUALITY AIRBRUSH AT A REALISTIC PRICE

HUMBROL Modeller's Air Brush

Now £1.95 inc. Postage and Packaging. Available from all Model and Toy Shops.

The major features are:

- ADJUSTABLE AIR CONTROL
- FULLY SEALED SYSTEM
- VARIABLE PAINT CONTROL
- WITH PATENTED PRESSURE CONTROL VALVE

At last, a top quality Airbrush at a realistic price! This Airbrush incorporates features found only in Airbrushes costing six times the price. A precision instrument, designed by Humbrol after detailed research, it is versatile and brings a wide variety of finishes within the reach of every modelling enthusiast.

1. Easy to use — easy to clean.
 2. Built-in dual controls for air and paint flow — gives wide variety of finishes.
 3. Fully sealed system.
 4. Patented on-off switch eliminates power pack wastage.
 Humbrol Modeller's Airbrush, used with non-toxic Humbrol paints and propellants, gives you a completely safe system.
 Contents: Airbrush, Airline, Power Pack Connector, 2 Jars, Instruction leaflet (* Power pack not included).

HUMBROL
MARFLEET · HULL · ENGLAND

HUMBROL Modeller's Airbrushes are available from all Model and Toy Shops.



magazine for plastic modellers

February 1976

Volume 17 No 6

Editorial Director **Darryl Reach** Editor **Bruce Quarrie** Art Editor **Tim McPhee**
 Editorial offices Bar Hill, Cambridge CB3 8EL. Telephone Crafts Hill 80010

On the cover

Top Boxtop artwork from Airfix's new 1:72 scale F-14 Tomcat kit depicting a machine in the colourful markings of a US Navy aircraft from VF-1 on the USS *Enterprise* (see also feature on pages 355-7). **Left** Sergeant, 14th New York State Militia, Union Army 1861-4, carrying flank marker (*Gerry Embleton*). **Right** HMS *Antelope*, second of the Royal Navy's Type 21 Frigates (*L/A Tony Thomas, HMS Daedalus*).

Contents

News from Airfix	E-boat and MRCA kits	323
Air, land and sea	New exhibition at RAF Museum plus other news items of interest to modellers	324
Squadron codes and colours	by Michael J. F. Bowyer and John D. R. Rawlings	330
Operation Sealion	Modelling coastal fortifications described by Terry Wise	331
HMS Apollo	Modelling the penultimate Leander by Paul Beaver	335
American Civil War Zouave	Modelled in 54 mm scale by Martin Windrow and Gerry Embleton	336
Army-air colours	Enter the Blenheim, by Michael J. F. Bowyer	338
British army uniforms	Infantry in the 1790s by Bryan Fosten	342
RB-57F	Major 1:72 scale conversion from the Airfix Canberra kit by Bryan Philpott	344
8th Army in the desert	Modelling the Matilda flail, White scout car and Dorchester ACV, by John Sandars	352
Tomcat!	Photo feature on the F-14 by Peter F. Guiver	355
Americans invade Dorset . . .	Report on a recent military exercise from Terry Gander	358
New kits and models	Recent releases reviewed	360
News for wargamers	New games and books	362
Photopage	Return of this popular feature by Michael Bowyer	363
Book reviews	New publications of interest to modellers	364
Letters to the editor	Your chance to win a free Airfix kit	365

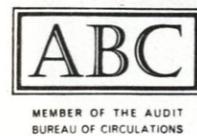
Advertisement Representatives
 Jackson-Rudd and Associates Limited,
 Oldbourne House, 46/47 Chancery Lane,
 London WC2A 1JB
 Tel 01-405 3611

Advertisement Manager
 S. C. Sullivan

© All articles and illustrations published in AIRFIX MAGAZINE are strictly copyright and may not be reproduced without written permission from the Publishers. The Editor welcomes the submission of editorial material, which should be accompanied by return postage. Though every care is taken, the publishers cannot accept responsibility for safe keeping of editorial contributions.

Circulation Department
 Surridge Dawson and Company (Productions) Ltd, Publishing Department, 136/142 New Kent Road London SE1
 Tel 01-703 5480

Airfix Magazine is published for the proprietors, Airfix Products Limited, by PSL Publications Limited, on the fourth Friday of each month. Annual subscription rate £5.10 (USA \$12.00) from Surridge Dawson & Company (Productions) Limited. Second Class postage paid at New York Post Office, NY.



JONES BROS. OF CHISWICK

NEW KITS

Matchbox He. 111, Wellington, He. 115, Phantom F-4M/K — 85p each
Matchbox Siskin 111, Henschel 126, HS Hawk 1182 — 30p each
Matchbox Aston Martin Ulster, Bugatti 59, Jaguar SS/100, Porsche 917, all 1/32 scale — 75p each
Hasegawa FW190A or D, both 1/72 — 50p each
Hasegawa 1/76 AFV M5 Tractor, Daimler Mk 2 A/C, Humber Mk 2 A/C all at 40p each
Airfix A300 B Airbus — £1.35 each
Airfix F 86 D Sabre 1/72 scale — 38p each

'If you think of something, think of Jones Bros.'

FROG KITS

Full range as listed available, Mirage 111, Hunter, Typhoon 1B, all at 55p each
Javelin, Vimy Mk XV, Canberra, all at 75p each
others from 45p and 65p each

TRADE INQUIRIES INVITED for FROG and Plasticard

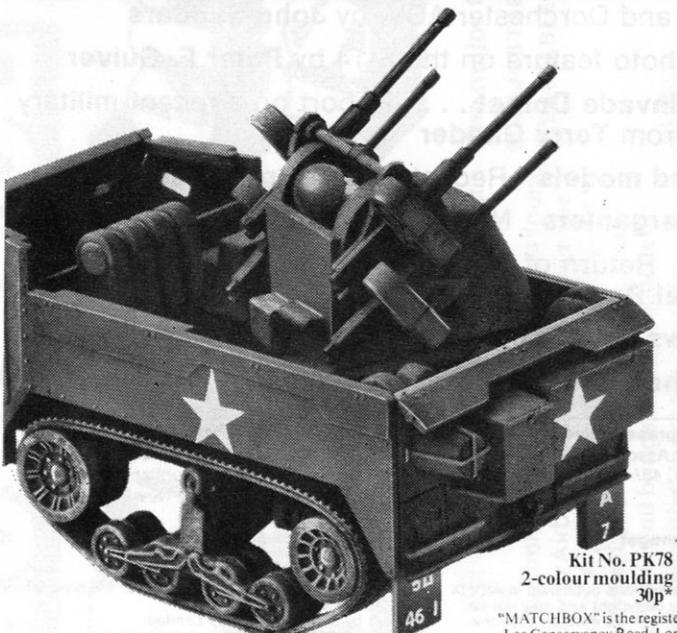
PLASTICARD in packs of 10 (white)
10 thou 90p, 20 thou £1.25, 30 thou £1.40
40 thou £2.00, 60 thou £3.70

REVISED POSTAL RATES

20% of order (minimum 20p). Over £10 Post Free (U.K. only)

56 Turnham Green Terrace, Chiswick
Tel. 01-994 0858 LONDON, W4
Closed all-day Thursday

Est. 1911



Kit No. PK78
2-colour moulding
30p

"MATCHBOX" is the registered Trade Mark of Lesney Products & Co. Ltd., Lee Conservancy Road, London E9 5PA. *Recommended retail price at time of going to press.



Leicester Micro Models Ltd

50 WALCOT WALK, PETERBOROUGH PE3 6QF

You've seen our adverts for our new releases but do you know what we sell?

1/300 MICROTANKS

The original comprehensive range (over 100 completely different types) all the detail you can see (no magnifying glass is needed to see the detail you have paid for) — unbreakable wire gun barrel, your 75 L 48 will not become a 75 L 24 in a moment of careless rupture.

1/300 AIRCRAFT

Our new rapidly expanding range (over 30 already) and we are the only manufacturer of a comprehensive range of modern and WW2 aircraft in this scale.

1/4800 MICROSHIPS

Designed for the wargamer, the nearest you can get to a realistic scale/range ratio and still recognise each ship class — we've not yet counted the number who have said in surprise "That's a class cruiser" — over 120 in our range at 7p each.

1/1200 MODEL SHIPS

For the traditionalist wargamer and as a supplement to other 1/1200 scale larger ships. No fragile detail and no bank account draining price either — best value for money you can get — a growing range of over 30 and more to come.

RULES

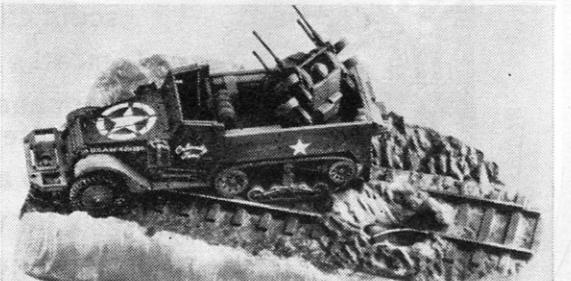
These are available for the popular periods — capable of being used in complicated campaigns or to give an evening's pleasure ... We don't know if anyone copies them but we know you use them.

SERVICE

We are proud to say that if we have them in stock your goods are dispatched within five days of receiving your order but we can't answer for the Post Office.

LOOK OUT FOR OUR RANGE OF 1/300 FIGURES (WW2 TO START WITH OTHER PERIODS TO FOLLOW LATER).

Send to the address above for our comprehensive lists.



At "MATCHBOX" we understand how enthusiasts appreciate authenticity and a fine feeling for detail. This M16 Half-track won its special place in history during World War II. From 1942 it was widely used to protect armour and infantry units from the Luftwaffe.

The completed model has a swivelling turret, guns that elevate, clip-together tracks, and comes with its own realistic diorama base.

You'll find that the parts go together smoothly and there's a sleekness of finish that brings real satisfaction to model-making. Another cause for satisfaction — at prices from 30p "MATCHBOX" Kits are superb value for money.



THIS MONTH'S BARGAINS:
Humbrol/Badger 200 Airbrush Set £16.00.
Contents: 200 Airbrush, Airline, On/Off Valve, 4 Jars, Propellant and instructions

FROG

Aircraft — 1/72 Scale

Barracuda	30p
Gipsy Moth	30p
Tupolev SB2	42p
Fairey Gannet	30p
Buccaneer	40p
Maryland	40p
Lysander	25p
Vengeance	24p
FW 190A	25p
Curtiss Kittyhawk	25p
Mitsubishi Zero	25p
Fokker D21	25p
Jaguar	60p
Hunter	50p
Waterline 1/500 Scale	
HMS Hero	25p
HMS Torquay	25p
HMS Undine	25p
Colour Catalogue p/p	35p

ESCI

1/72 Scale AFVs — 60p each

NEW

8009 P3 JG V Jagdpanther	
8023 PZKPFW Ausf G 1V	
8026 PZKPFW V Panther Ausf A	
8028 M4 A1 Sherman	
also	
8001 PZKPFW 111 Ausf M	
8002 PZKPFW 251/1	
8003 PZKPFW 11 Ausf F	
8004 105 mm S/P Gun WESPE	
8005 Sturmgeschutz	
8006 Elefant & Figs.	
8007 Opel Blitz Lorry	
8008 King Tiger & Figs.	
8010 Marder 111	
8011 Hetzer 38t	
8012 PZKPFW 1V Jagdpanther	
8013 Hummel	
8014 SDKFZ H/T 11	
8018 Afrika Korps & Weapons	
8019 8th Army & 6 Pdr A/T Gun	
8020 Pak 40 & Pak 36	
8021 PZKW 11 Ausf N	
8022 SDKFZ 251/1 & R/Launcher	
8035 Opel Blitz Ambulance	
Colour Catalogue post paid 42p	

CONVERSION/ACCESSORIES

White Plastic Card approx 9" x 12"

.005 — 10p	.030 — 22p
.010 — 11p	.040 — 27p
.015 — 13p	.060 — 45p
.020 — 15p	

Clearglaze

.010 — 18p	1
.020 — 20p	

Micro Strip Assorted

35p	
30p	

Micro Rod Assorted

30p	
20p	

Mek Pak Liquid

Cement	18p & 30p
Plastic Weld Liquid Cement	35p

Dulcote Spray

Glosscote Spray	25p
Squadron Green Stuff	65p

Humbrol Green Putty

Silver Rub & Buff	65p
Airfix Paints	each 15p

Pactra Paints

Humbrol Authentic Paints	each 16p
Humbrol Enamel	each 13p

Petite Precision

Super 30 Kit	£15.00
Super 10 Kit	£11.50
Drill only p/pd.	£7.00

Lee/Grant and Sherman

75p per set

2

1/32 Scale

Drop Tanks

Designed for Revells F-4J & E

Phantom

£1.00 per set

3

Scatter Material (our assortment of 5 colours)

80p per pack

FUJIMI

1/76 Scale AFVs — 60p each

EBA1 King Tiger	
EBA2 KV-1 1941	
EBA3 KV 11	
EBA4 Jagdtiger	
EBA5 Jagdtiger Hetzer	
EBA6 PZKPFW 38t	
EBA7 Sherman M4-A3	
EBA8 Matilda Mk 4	
EBA9 SDKFZ 250 H/T	
EBA10 Armoured Car 222	
EBA11 Kubelwagen BMW R75	
EBA12 Valentine	
EBA13 T34	
EBA14 SU 85	
EBA15 Volga	
EBA16 Jap Type 97	
EBA17 Ho-Ni Jap	
EBA18 Chi Ha	
D1 German Infantry	
D2 88 A/T Gun	
D3 US Infantry	
D4 Jerry cans, Bricks etc.	
D5 A/T Obstacles/Watch Tower</td	



**HINCHLIFFE MODELS
LIMITED**
MELTHAM, HUDDERSFIELD
ENGLAND HD7 3NX

**WHY LOOK ANY
FURTHER THAN
'HINCHLIFFE' FOR
YOUR MILITARY
MODELS?**

The best in:

**PRODUCTION
QUALITY
AND DESIGN**

Couple this to our renowned ability to deliver the goods and you're talking about the best in this top field of military modelling.

Over 400 stockists throughout the country can't be wrong! (An S.A.E. brings you the address of your nearest.)

See what you get before you buy and become another of our personal and satisfied customers.

75 mm Spanish mounted trooper (Lancier de la Mancha) 1813
75/JBC1
ONLY
£6.25



ENSIGN SHIPS & AIRCRAFT

NEW 1/1200 SCALE METAL MODELS

POSTAGE add 10%
MINIMUM 10p Full
CATALOGUE 20p POST
FREE

S.S. TOPAZ	each 30p
S.S. LONDON QUEEN	each 36p
S.S. TEMPLE MEAD	each £1.30
DIDO CLASS Cruiser 1941	each £1.80
NEW AIRCRAFT MODELS	
G4M2 BETTY Japanese WW2	each 10p
D4Y2 JUDY Japanese WW2	each 7p
MIG25 FOXBAT modern	each 10p
IL28 BEAGLE modern	each 10p
DELTA DART modern	each 7p
MIRAGE V modern	each 7p

MODEL FIGURES & HOBBIES

LOWER BALLOO ROAD, GROOMSPORT, CO. DOWN, BT19-2LU N.I.

aviation books galore!

**History — Reference
Modelling — Engineering
Computers — Navigation
Flying — Construction**

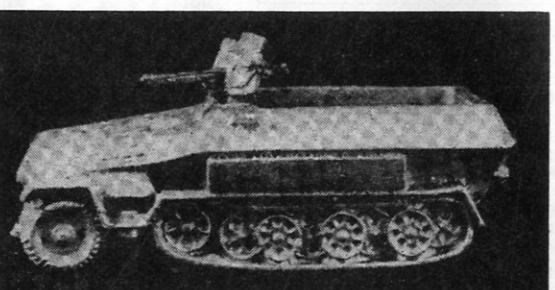
We carry a comprehensive U.K. and International range of books on all aspects of aviation and armour.

Send 12p for list. Refunded on orders of £2.50 or more. Personal callers welcome.

Motor Books & Accessories
33 (AM) St. Martin's Ct., London WC2

Tel: 01-836 5376

Fight the Desert War in a small way . . .



with GHQ original Micro-Armour. You get classic detail on our 1:285 scale models—the sort that you associate with tanks many times their size. Like the shovel on the Sherman. Maybe you prefer the Eastern Front. Inspect our Tigers. Or else you like the 1940 campaigns. Our listing fits the bill. Look at GHQ Micro-Armour and see that small does not mean shapeless. Send 20p for our listing and a sample of the Tiger One to us. We know you will like what you see.

Go for GHQ

In packs of five from 40p to 72p (+ VAT) per pack of five items.

NEW HOPE DESIGN

Rothbury, Morpeth, Northumberland, England

MODEL MARK

33 PLASHET GROVE, UPTON PARK, LONDON, E.6

TELEPHONE: 01-552 0352 Monday to Friday

AMERICAN FIGHTERS

Buy one pack of 1/72 scale U.S.A.F. fighters for only £3.77 plus p/p. Contains the following Hasegawa kits: F106A, F100D, F15A, F104, F105D & F5A.

RUSSIAN FIGHTERS

Buy one pack of 1/72 scale Soviet fighters for only £1.50 plus p/p. Contains K.P. MIG19, K.P. MIG17 and bagged Hasegawa MIG21 Fishbed.

BRITISH FIGHTERS

Buy one pack of 1/72 scale British fighters for only £3.55 plus p/p. Contains Hasegawa Harrier, Frog Lightning, Frog Javelin, Frog Vampire, Frog Hunter and Matchbox Phantom F4K/M.

Or buy all three packs for £8.70 post free plus three free tubes of glue.

FORMULA 1 GRAND PRIX PACKS

Tamiya Martini Brabham plus driver figure plus mechanic figure £7.99
Tamiya J.P.S. or Texaco McLaren or Yardley McLaren or Tyrrell plus driver figure plus mechanic for only £7.29
Both offers POST FREE.

FORTRESS SPECIAL

Whilst stocks last we are offering the following as a special purchase:
Monogram B17G Fortress 1/48 scale, Squadron Signal B17 in Action book, Humbrol olive drab, Humbrol Neutral Grey, Pactra Zinc Chromate plus a tube of glue for only £7.50 post free.

AIRBRUSH SPECIAL OFFER

Whilst stocks last we are able to offer Humbrol/Badger 200 series airbrushes at the following prices:
Basic 200 Air Brush £15.00 Badger 250 Air Brush £5.00
Humbrol 200 set, with power pack and spare jars included £16.00
Please note that we maintain full stocks of spares for the Badger range of Air Brushes, plus compressors and Air Cans. Repair service operated.

AFV KITS

1/35	TAMIYA	1/35	1/72	ESCI	1/72
NEW—Hunting Tiger	..... £2.65	NEW—US M12 155 mm gun carriage	..... 60p	NEW—Russian Guards figures	..... 60p
NEW—Panther	..... £2.65	NEW—U.S. Marine figures	..... 60p	Opel Blitz truck	..... 60p
NEW—Russian KV1	..... £2.65	Opel Blitz Ambulance	..... 60p	King Tiger	..... 60p
NEW—Horch Type 1A	..... £1.75	Elephant tank destroyer	..... 60p	Jagdpanther PzKpfw 1V	..... 60p
1/35 Sandbag set	..... 40p	Sturmgeschutz	..... 60p	Sturmgeschutz	..... 60p
1/35 Barricade set	..... 40p	Hanomag rocket launcher	..... 60p	Hanomag rocket launcher	..... 60p
1/35 Brick wall set	..... 40p				
1/35 German Tank Crew	..... 40p				
TAMIYA CATALOGUE	..... 9p				
NEW—M3A2 Half Track	..... 2.50				

1/76	FUJIMI	1/76	1/72	HASEGAWA	1/72
Jap Type 97	Elephant	Willys Jeep	Stuart Mk 1	1/72 scale conversions, injection moulded	
Chi-Ha	T34/85	Humber A/Car	Daimler A/Car	1. Phantom RF48/C/E	60p
Sherman	KV1A	M24 Chaffee	88 mm Flak 18	2. Hunter T7 (loose packed)	60p
Praga	SU85	TX40 Fuel truck	Panther G	3. Sea King radome, windows	25p
Hetzer	Matilda	M3 Grant Mk 1	M4A1 H/Track	4. Mosquito/Beaufighter radomes	25p
All 65p each plus the rest of this range		All 40p each plus the rest of the range.		5. HH3F Pelican radome, windows	30p
				6. Canberra TT19 radome	40p

1/35	ITALAEREI	1/35	1/72	MATCHBOX	1/72
Hetzer P38t	..... £1.75	Sherman Firefly	Wespe 124	1/72 scale conversions, injection moulded	
Marder 111	..... £1.75	M16 Half Track	Panther	1. Phantom RF48/C/E	60p
Elephant	..... £3.00	Pz111 Aus G	Humber Mk 11	2. Hunter T7 (loose packed)	60p
Opel Blitz	..... £1.75	Comet A34 Mk 1	Puma 234/3	3. Sea King radome, windows	25p
Panzer 1V F1/F2	..... £2.20	All at 30p each	..... 58p for two	4. Mosquito/Beaufighter radomes	25p
PzKpfw 36t	..... £1.75			5. HH3F Pelican radome, windows	30p
Ansaldo 13/40	..... £1.75			6. Canberra TT19 radome	40p

FUJIMI AIRCRAFT KITS

As importation of these kits into the U.K. has now ceased this is the last chance of obtaining supplies of these excellent 1/48 scale aircraft kits.

P51D Mustang	..... £1.50	F6F Hellcat	..... £1.50	FW190A	..... £1.30
HAS 1 Wasp	..... £1.00	Northrop F5A	..... £1.00	Intruder	..... £2.85
Huey Cobra AH1G	..... £1.00	Iroquois UH1B	..... £1.00	FW190D	..... £1.30
Plus the Grumman E1 Hawkeye in 1/72 scale					£1.60

REMEMBER . . . THERE WILL BE NO MORE WHEN CURRENT STOCKS HAVE BEEN SOLD

Special Purchase	REVELL DRAGSTERS	Reduced Prices	
Tony Nancy's Loner Dragster	..... £3.60	Praying Mantis Dragster	..... £3.60
Da Revell Fast Guys Dragster	..... £3.60	Hawaiian Charger	..... £1.85
Revell Snowman Charger	..... £1.85	Thompson Grand AM	..... £1.85

APOLOGIES

Due to the recent Canadian Postal strike we have been unable to obtain supplies of the following items: Floquil weathering sets, Horizon conversions and Airframe kits. In case the situation has not resolved itself by the time this advert appears we apologise for continued delays.

THE BIG 'UN . . . F104 STARFIGHTER . . . 1/32 . . . HASEGAWA

This really is a superb model, with fully detailed engine, gun bay and cannon, nose radar and cockpit assembly. Alternative decals for Japan, West Germany and Denmark £2.95

ARMS PACK No.1 — NEW

New 1/35 scale accessories. The first contains Air Cooled Browning M2, Vickers 'K' 303 twin and single m/gs. Fully detailed, injection moulded, separate sights, mounts etc. 35p

SPECIAL ARMOUR SALE

Whilst stocks last, greatly reduced.
Tamiya GAZ 67B 65p Tamiya Dingo 65p
Tamiya Zundapp 65p Nitti Kettenk 60p
Italaerei PAK40 65p All 1/35 scale

AIRMODEL LATEST

Arado 96, complete kit with decals 1.50
Gannet AEW3 conv. 80p Vampire NF conv. 65p

REPLICA IN SCALE

We now have stocks of the latest issue, vol. 3 No. 2. This issue covers the F100 with over 120 side views and drawings, plus the M113 Carrier, Anti-G flight gear, US Army in Vietnam 1969 90p. Also stocks of Vol. 3 No. 1 are still available (Skyhawk issue) at 90p or £1.80 post free for both.

METAL SKINNING

We have stocks of Metal foil aircraft skin. Gloss or Matt at 45p per sheet.

DAY-GLO

Day-glo decal, red or orange 25p

1/32 MATCHBOX CAR KITS — NEW

Porsche 917-10 Martini 85p
Aston Martin Ulster 85p
Jaguar type SS/100 85p
Bugatti type 59 85p

NEW . . . LATEST ARRIVALS

Matchbox Hawk 30p Chaffee 30p
Mania 1/72 Type 99 Lilly £3.25

SQUADRON SIGNAL — NEW

LONGER LIFE

BRIGHTER GLOW

JOY LUMINOUS PAINT

See in the dark with JOY Luminous Paint. Ideal for use on skeletons, toys, models, novelties, light switches, door numbers, paper, cardboard, and materials etc.

Light active but not radio active. Outfits contain Base Reflecting Coat and Top Luminous Coat. Green shade only.



JOY is a registered trade mark of TURNBRIDGES LTD., LONDON, S.W.17.



NEWS FROM AIRFIX

1 German E-boat

1

CLOSELY following the introduction of the Vosper MTB is a new addition to the Airfix high speed boat range in 1:72 scale — the German E-Boat (Kriegsmarine Schnellboot), which was well known for its hit and run forays against Allied shipping in the English Channel and the North Sea during World War 2.

This powerful, heavily armed craft was developed by Germany along similar lines to those pioneered by the early British Coastal Motor Boat, but with the addition of many refinements. The most significant of these was the use of triple diesel engines as opposed to the unreliable, often dangerous petrol engine, together with a round bilge hull and a long low silhouette. Other modifications included a crew complement increased from 18 to 30; an engine capable of 40 knots and strengthened armament facilities.

The E-Boat proved to be most beneficial when used for night attacks as its off-white finish afforded ideal night camouflage due to the phosphorescent nature of the sea, enabling mine laying operations as well as shipping attacks to take place more effectively.

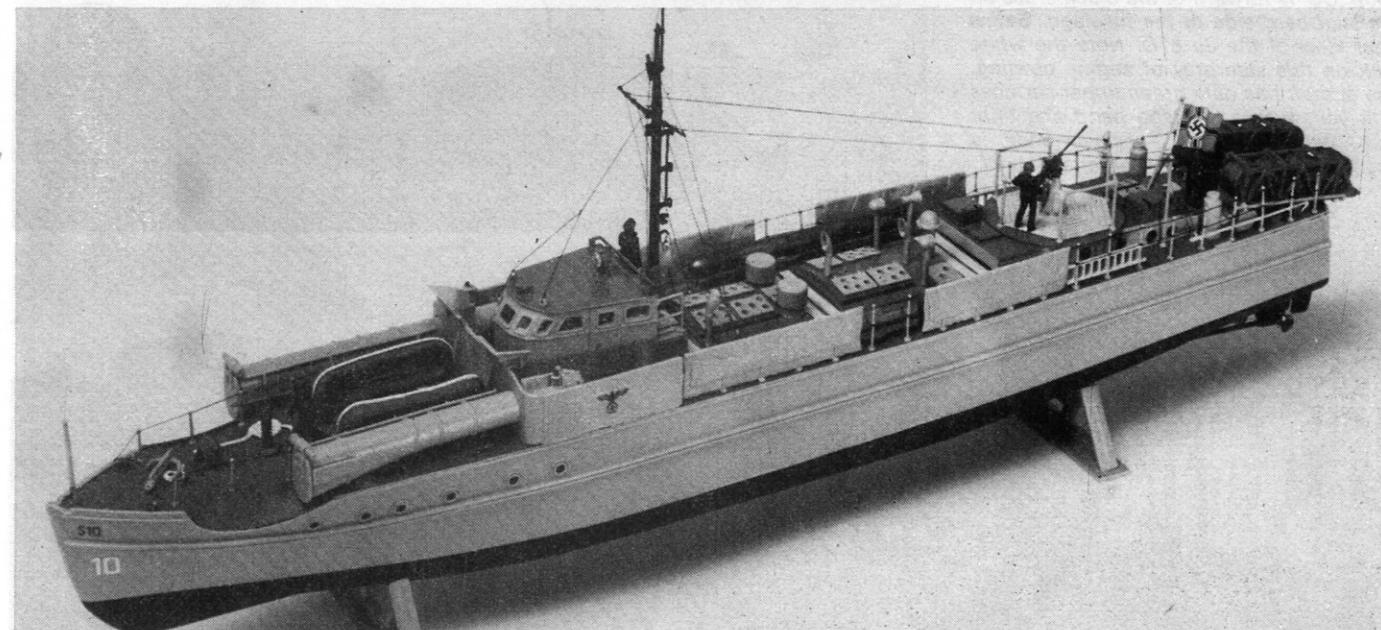
Due to the versatility of the Airfix kit, the E-Boat can be constructed either as a waterline or a full hull model and, when completed, measures 17½ inches. 247 pieces produce this high speed torpedo boat which incorporates features such as opening torpedo tubes, both at the back and the front and full rigging diagrams of

the wires and stays for the support mast. The kit comes with five crew figures, depth charges, a choice of authentic transfer sets, and a battle flag. Retail price is £2.35.

2

THE SWING-WING MRCA is the result of a combined effort between the United Kingdom, Germany and Italy and is presently Europe's most important military programme. Officially known as 'Tornado', the MRCA was conceived in 1969 and is destined to replace RAF Vulcans and Canberras in the strike and reconnaissance role, and later Buccaneers in the maritime strike role.

Many special features have been incorporated into the design of the MRCA which produce its outstanding performance and



set it apart from other aircraft, especially the unique swing-wings which, unswept, facilitate the aircraft's short take-off and landing properties and, in the fully swept position, allow for transonic low level, long distance missions.

The aircraft's specially designed RB 199 turbofan engine provides a Mach 2 performance at high altitude, while an advanced electronic system including a terrain following radar and an automatic target acquisition and weapon aiming system for single pass strikes in any weather.

Among the aircraft's main functions will be the provision of close air support for ground forces, and the undertaking of long-range low level strikes, naval strikes, and interception and reconnaissance.

This up-to-date Airfix kit pays special attention to the extraordinary details of the aircraft. The model is produced from 101 parts and includes a fully detailed cockpit; adjustable sweep wings; moving elevators, and air brakes which have optional positioning. A wide variety of armaments are also provided, the most notable being the new Cluster Bomb and the Martel missiles. Three sets of transfers come with the kit allowing the modeller to choose between the prototype MRCA or an aircraft from the RAF or German Navy. Retail price of the kit is 75p.





Air, land and sea

compiled by the editor

AS PART OF the development programme of the Royal Air Force Museum at Hendon, a new wing, known as the Dermot Boyle Wing, was opened by HRH the Prince of Wales on December 2 last. This has been designed with the intention of holding various displays and exhibitions from time to time, and has cost over £200,000. The first such exhibition to be mounted is called 'Wings of the Eagle' and portrays the development of German aviation from the 1600s to the present day.

The major part of the display consists of numerous photographs (and, for the early years, drawings) depicting significant aircraft and events, commencing with the various attempts and proposals at aviation in the 1680s. Then come the Lilienthal gliders in the 1890s, the Zeppelin airships of 1900, the first powered aircraft, and these then follow the course of German aviation through World War 1, the inter-war years, World War 2, and the post-war years, culminating in the MRCA.

In addition there are several relics and

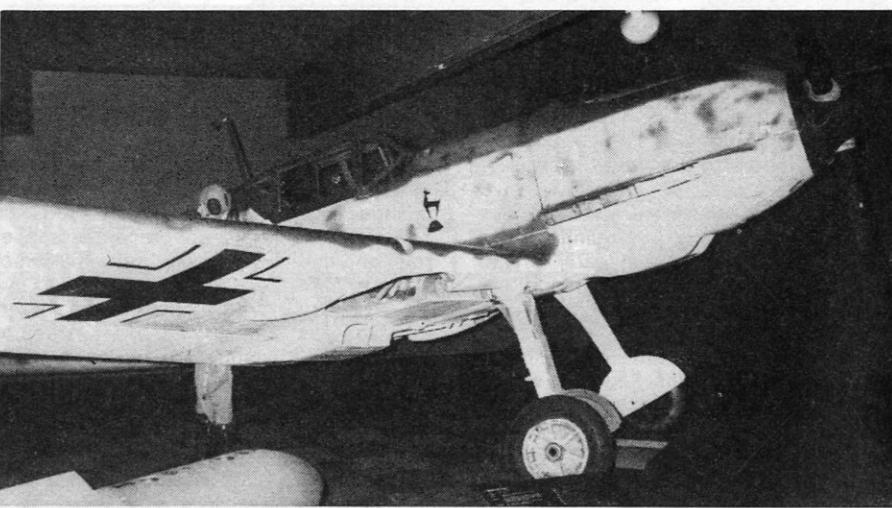
von Richthofen's Fokker Triplane and Gotha bombers, and aircraft machine-guns and bombs from both world wars. Also on show are uniforms (including that of Hermann Goering), badges of rank, decorations, aircraft instruments, cameras and a number of aircraft models.

Two engines are on view, a 1918 260 hp Mercedes and a 1941 BMW 801D from a Fw 190A. Within the new wing are two aircraft, a Fokker D.VII and a Messerschmitt Bf 109E, and also on show is a Henschel Hs298 air-to-air radio-controlled missile.

Displayed by the main entrance to the

Continued on page 326

other exhibits. These include fragments from a Zeppelin that was shot down over England, samples of fabric from Manfred



Top right Messerschmitt Bf 109E on display inside the new wing of the RAF Museum.

Above right Me 262 with dark green upper surfaces merging into light blue under surfaces. Wk Nr 112372 in black on fin above tailplane. Swastika is dark olive. Code 'X' is red with thin white outline on fuselage in front of white outline cross. Right This Me 410A was brought to Hendon from RAF Cosford. Mottled grey-green upper surfaces with white rear fuselage band. Forward code 'C' is red, rear 'C' is black. This code 'CC' is forward of the black cross on the starboard side of the fuselage. Below Rear view of the Ju 87D. Note the white tank on this side only of engine cowling. The aircraft has dark green upper surfaces with yellow rear fuselage band and light blue under surfaces. Fuselage code is RI+JK, with 'J' red and other letters black.



AIRFIX NEW MODELS FILE

HAWKER SIDDELEY HAWK

Technical Details

Date of origin:	1974.
Engine:	One 5,340lb thrust Rolls-Royce/Turbomeca Adour.
Top speed:	535 knots.
Service ceiling:	44,000ft.
Landing speed:	100 knots.
Wingspan:	30ft.10in.
Length:	39ft.2in.
Height:	14ft.5in.



Hawker Siddeley Hawk
72nd Scale Series 3.
New to the world's biggest range
of construction kits.

THE HAWK THAT FOLLOWED THE GNAT.



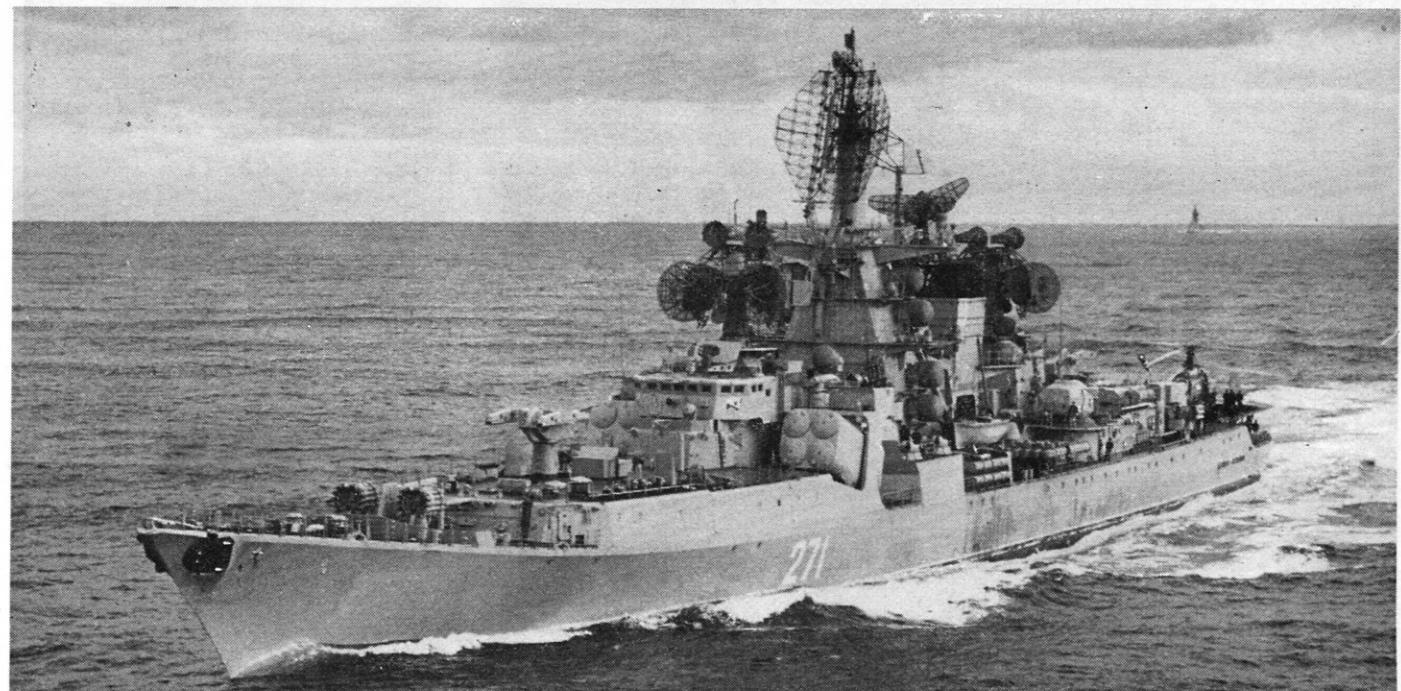


Continued from page 324

museum are three more aircraft, a Ju 87D, Messerschmitt Me 410A, and an Me 262, together with a V1 and a V2. The exhibition is open until May 31, and admission costs 20p for adults and 10p for children; the permanent museum display is of course free. The museum is open daily 10 to 6 and 2 to 6 on Sundays. Following the German display it is planned to mount a presentation on French aviation.

Above HMS Ark Royal seen during the eight-nation NATO maritime exercise 'Ocean Safari 1975' held in the Eastern Atlantic and Norwegian Sea last year. On board, securely lashed down, are Buccaneers and Phantoms. Taking part in the exercise were 65 ships and 17,000 men from Canada, Denmark, West Germany, the Netherlands, Norway, the UK and America. An uninvited participant was the Soviet Kresta II cruiser shown below (MoD).

Continued on page 328



AIRFIX NEW MODELS FILE

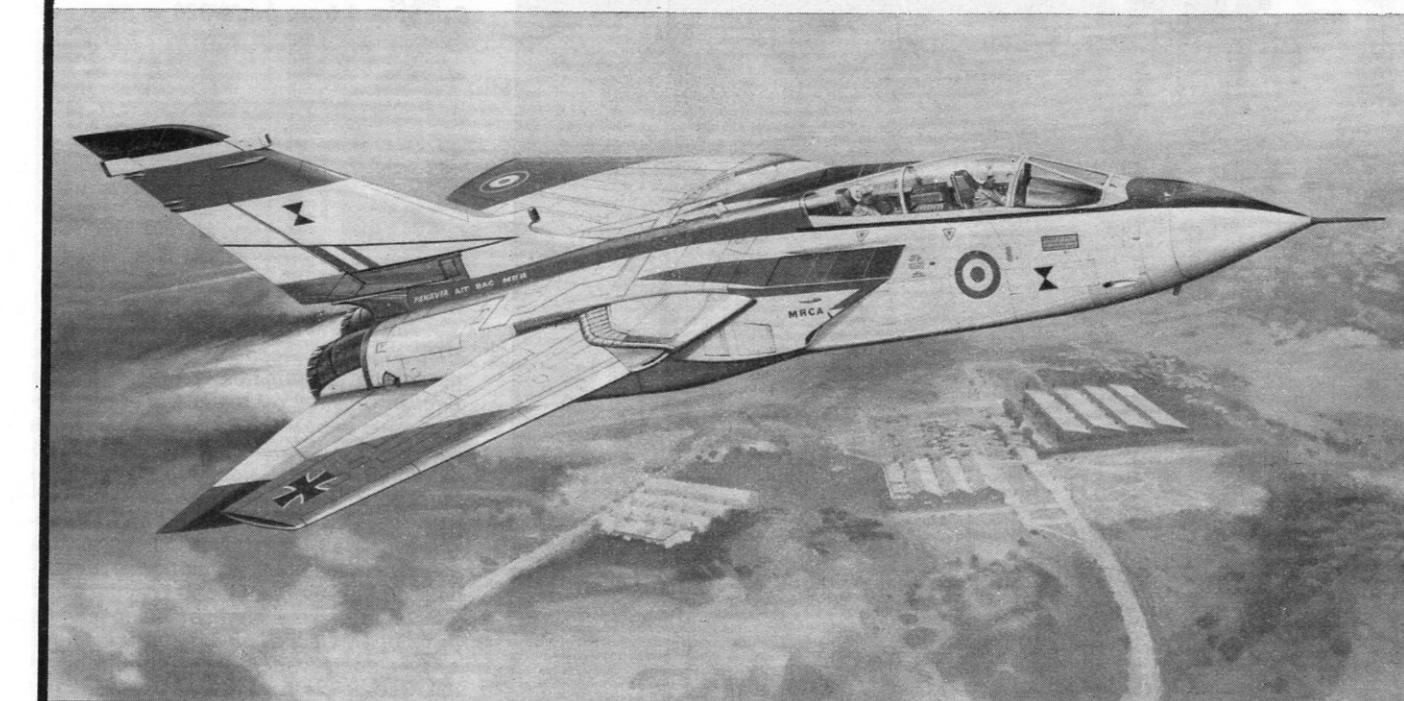
MULTI-ROLE COMBAT AIRCRAFT

Technical Details	
Date of origin:	1974
Engine:	Two 8,500lb thrust Rolls-Royce RB.199s.
Top speed:	Mach 2.
Armament:	Two 27mm cannon plus seven external weapon stations.
Wingspan (swept):	28ft.2in.
Wingspan (unswept):	45ft.7½in.
Length:	54ft.10in.
Height:	18ft.8in.



72nd Scale Series 4.
New to the world's biggest range of construction kits.

THE TORNADO THAT'S SWEEPING EUROPE.





MRCA Prototype 02, based at BAC Military Aircraft Division's Warton Aerodrome in Lancashire, and flown by Paul Millett, the Division's chief test pilot, seen during in-flight refuelling exercises with an RAF Victor tanker.



Continued from page 326

HMS Antelope, second of the Royal Navy's new Type 21 frigates, pictured in the English Channel off the Isle of Wight. The tenth ship to bear the name, HMS Antelope was built by Vosper Thorneycroft, Southampton, and was designed by them in conjunction with Yarrow Ltd. The Type 21 frigate represents a new generation of warships for the Royal Navy and incorporates many new features, including all-gas turbine propulsion machinery. They displace 2,500 tons, have a length of 384 feet and a beam of 41 1/4 feet. Their armament includes a new automatic rapid fire 4.5-inch gun and the Seacat close range anti-aircraft and surface-to-surface missile system (MoD).



YOUR INTERNATIONAL MODEL MAIL ORDER HOUSE

Suppliers to the British and Overseas Governments



TAMIYA

CAR KITS 1/12 Scale

Datsun 240Z Safari Car	£11.10
Tyrell Ford F-1	£6.00
Lotus 72 John Player Special	£6.00
Texaco Marlboro McLaren M23	£6.00
Honda F-1	£1.00
Porsche Carrera 910	£8.75
Lotus 49	£6.00
Formula 1	£6.00
Lotus 49B	£6.00
Formula 1	£6.00
Matra MS-II	£6.00
Formula 1	£6.00
Lola T70 Mk III	£11.00
Datsun 240 G	£11.00
Ferrari 312B F-1	£6.00
Yardley McLaren	£6.00
Martin Brabham BT44/B	£6.47

MOTORIZED CAR KITS 1/18 Scale

V.W. Buggy	£3.65
Porsche 910	£3.65
Nissan R381	£3.65
McLaren M8 A	£3.65
Lola T-160 TS	£3.65

TANKS 1/25 Scale

With interior detail	
Tiger I	£9.10
Tiger I remote control	£12.00
Centurion	£9.10

TANKS 1/25 Scale (motorised)

Russian T34 Tank	£6.10
German Panther V with four figures	£6.94
German Jagdpanther "Rommel" with four figures	£6.94
British Chieftain Tank	£6.94
British Centurion Mk III	£9.10
SU100 Russian Assault Gun	£6.10

TANKS 1/25 Scale with two motors and remote control

British Chieftain	£9.10
Tiger I with interior detail	£12.00
Russian T34 Tank	£7.40
Russian SU-100 "Jukoff"	£7.40

TANKS 1/35 Scale

British 6 pdr. gun	83p
V.W. German Kubelwagen	92p
German 75 mm Assault Gun Sturmgeschutz-III Ausf. G	£2.42
Russian Field Car GAZ 67B	92p
U.S. Willys Jeep with crew and trailer	£1.52

MILITARY MINIATURES 1/35 Scale

British 6 pdr. gun	83p
V.W. German Kubelwagen	92p
German 75 mm Assault Gun Sturmgeschutz-III Ausf. G	£2.42
Russian Field Car GAZ 67B	92p
U.S. Willys Jeep with crew and trailer	£1.52

GERMAN HANOMAG 1/35 Scale

25/1 Halftrack with soldiers	£1.80
German BMW Military Motor Cycle and Sidecar with soldiers	92p
German PZKW3 Ausf. M/N with German Officer Set	£2.42
T34/75 Russian Tank 1942 model	£2.20

GERMAN 88 mm 36/37 Flak with crew and motorcycle

V.W. German Schwimmwagen	92p
German PZKW3 Ausf. M/N with German Officer Set	£2.42
T34/75 Russian Tank 1942 model	£2.20
ALL 50p PER KIT	

GERMAN 88 mm 36/37 Flak with crew and motorcycle

V.W. German Schwimmwagen	92p
German PZKW3 Ausf. M/N with German Officer Set	£2.42
T34/75 Russian Tank 1942 model	£2.20
ALL 50p PER KIT	

GERMAN 88 mm 36/37 Flak with crew and motorcycle

V.W. German Schwimmwagen	92p
German PZKW3 Ausf. M/N with German Officer Set	£2.42
T34/75 Russian Tank 1942 model	£2.20
ALL 50p PER KIT	

GERMAN 88 mm 36/37 Flak with crew and motorcycle

V.W. German Schwimmwagen	92p
German PZKW3 Ausf. M/N with German Officer Set	£2.42
T34/75 Russian Tank 1942 model	£2.20
ALL 50p PER KIT	

GERMAN 88 mm 36/37 Flak with crew and motorcycle

V.W. German Schwimmwagen	92p
German PZKW3 Ausf. M/N with German Officer Set	£2.42
T34/75 Russian Tank 1942 model	£2.20
ALL 50p PER KIT	

GERMAN 88 mm 36/37 Flak with crew and motorcycle

V.W. German Schwimmwagen	92p
German PZKW3 Ausf. M/N with German Officer Set	£2.42
T34/75 Russian Tank 1942 model	£2.20
ALL 50p PER KIT	

GERMAN 88 mm 36/37 Flak with crew and motorcycle

V.W. German Schwimmwagen	92p
German PZKW3 Ausf. M/N with German Officer Set	£2.42
T34/75 Russian Tank 1942 model	£2.20
ALL 50p PER KIT	

GERMAN 88 mm 36/37 Flak with crew and motorcycle

V.W. German Schwimmwagen	92p
German PZKW3 Ausf. M/N with German Officer Set	£2.42
T34/75 Russian Tank 1942 model	£2.20
ALL 50p PER KIT	

V.W. German Schwimmwagen	92p

<tbl_r cells="2" ix="2"



By Michael J. F. Bowyer and John D. Rawlings

MP 76 Squadron (c)

Reformed May 1 1941 at Linton-on-Ouse from 'C' Flight 35 Squadron. Equipped with Halifax Is, eg MP:L-L9530 missing 12/13 August 1941, and also Mk IIs. Mk Vs came into use from April 1943 to February 1944, eg MP:H-LK902. Used Halifax IIs February 1944 to April 1945, eg MP:H-LK791, and then Mk VIs March to May 1945, eg MP:H-RG555. Squadron to Transport Command May 7 1945 and re-equipped with Dakotas, eg MP:S-KN559. Proceeded to India where it became 62 Squadron on September 1 1946.

MQ 226 Squadron (c)

Letters issued to squadron in September 1939, used on Battles in France, eg MQ:J-K9182, and thereafter on Battles in Northern Ireland. Re-equipped with Blenheim IVs in May 1941, eg MQ:A-V6510. Boston IIs began to replace these in November 1941, eg MQ:F-W8287, and from mid-1943 the squadron flew Mitchell IIs, eg MQ:C-FL673, and later Mk IIs, eg MQ:Y-KJ561. Disbanded September 20 1945.

MR 245 Squadron (c)

At the start of the war the squadron adopted the letters DX but these compromised the coding of 57 Squadron. No 245's letters were changed in 1941 to MR when the squadron was then flying Hurricanes, eg MR:M-BE496. Typhoons were received at the end of 1942 and retained until August 1945, eg MR:M-JP802, MR:J-MN371. These were replaced first by Meteor IIs, eg MR:Q-EE286 used August-October 1945; Mk IVs in 1948, eg MR:C-VT109; and Mk 8s, eg MR:E-WA836. Squadron colours were adopted in 1951.

MS 273 Squadron (c)

These letters were almost certainly introduced when the squadron was flying Hurricanes in the Far East, and were subsequently used on Spitfire VIs, eg MS:S-MT793, and Mk XIVs, eg MS:F-RN218. Squadron disbanded January 31 1946.

Top Stirling 1 MG:M-W7442 used by No 7 Squadron in the late autumn of 1941 at Oakington. Behind stands a Wellington III of 101 Squadron, coded SR. **Second** A line-up of Spitfire Vs of 126 Squadron at Luqa, October-November 1942 (C. R. Long - via J. D. R. Rawlings). **Third** Spitfire Vb - MN:E (?), possibly AA857, of 350 Squadron after being shot down during offensive operations. The serial appears in very small characters above the fin stripe. **Fourth** Halifax 1 MP:L-L9530 of No 76 Squadron (IWM). **Bottom** Meteor III MR:Q-EE286 of 245 Squadron. Initially used by 504 Squadron April 10 1945 until it was taken on charge by 245 Squadron on August 18 1945. It was damaged in a flying accident on October 31 1945. Later it served with 1335 Conversion Unit for a few days in January 1946.

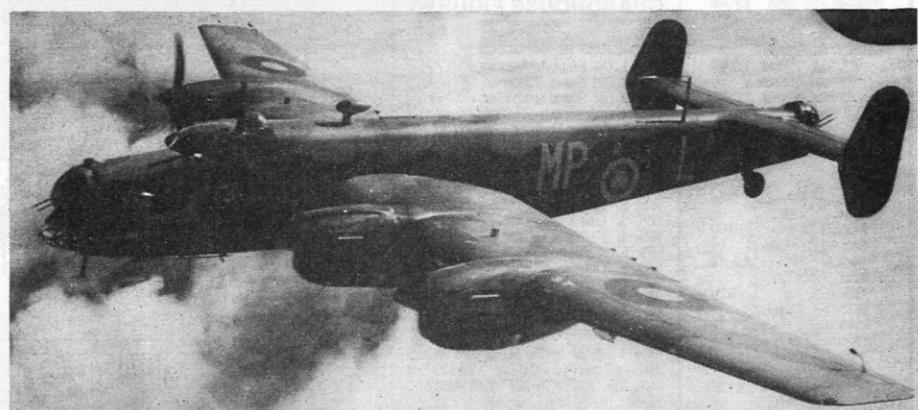
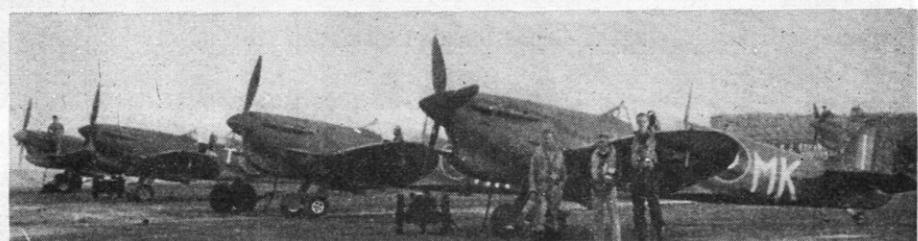
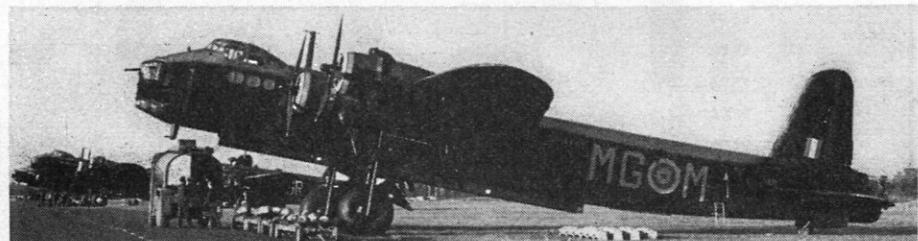
used MS as on Hornet F III MS:O-PX299 MS was also carried by Mosquito T III MS:A-TW117 of the Station Flight Church Fenton.

MT 122 Squadron (c)

Formed May 22 1941, the squadron successively flew Spitfire 1s, IIs, IIs, Vbs, eg MT:E-BM252, IXs and LF Vbs. Received Mustang IIs in January 1944, eg MT:K-FB226, and used Mustang IVs, eg KM237, from May to August 1945. Between February and April 1946 it had a brief flirtation with the Spitfire 21. Disbanded April 1 1946.

MS Station Flight Linton-on-Ouse (c)

This unit and the Northern Sector Flight



MU 60 Squadron (c)

Letters worn on Blenheim 1s September 1939 to early 1942, eg MU:X-L8609. Later worn on Hurricanes, eg MU:T-HW788, and Thunderbolt IIs, eg MU.M-KL187. Use relinquished when squadron adopted Spitfire 18s in 1946, these carrying individual letters only.

MV 231 Squadron (?)

Letters long quoted for use by 231 Squadron, but no confirmation has ever come to hand. The squadron formed at Aldergrove on July 1 1940 using Lysanders. Tomahawks were used April 1942 to May 1943, then Mustangs. It was disbanded January 15 1944.

MW 217 Squadron (c)

Used between September 1939 and August 1942, first on Ansons, eg MW.F-K8766, then on Beauforts, eg MW.N-L9764.

MW 101 Squadron (c)

After 217 Squadron left for the Far East MW became available for re-allocation. It was allotted to 101 Squadron for use by 'C' Flight, but no evidence has come to hand that it was ever displayed.

MW 1641 Flight (c)

Allocation confirmed, no details of use.

MX 1653 Conversion Unit (c)

A Liberator II was seen flying on January 1 1942 coded MX:M. On January 9 1942, 1653 CU officially formed at Polebrook and there is a possibility that this aircraft was on that unit's strength. The unit disbanded October 31 1942.

MX 31 Fighter Group USAAC (c)

Letters carried by Spitfire Vs of the 307th Pursuit Squadron August 1942 to October 1942.

MX 78th Fighter Group USAAF (c)

First used by P-47s then P-51s of the 82nd Fighter Squadron based at Duxford February 1943 to October 1945.

MX Station Flight Glatton (c)

Allocation confirmed, use not known.

MY 278 Squadron (c)

Formed as an Air-Sea Rescue squadron September 1941 and equipped with Lysanders, Walruses and Ansons. Later used Defiants and later Spitfire IICs and Vs, Walruses and Sea Otters. Examples Anson MY:A-EF985, Walrus MY:A-L2268, Spitfire IIC MY:P-R6965 and Sea Otter MY:U-JM885.

MZ 96 Bomb Group USAAF (c)

Used on B-17s of 413 Bomb Squadron April 1943 to December 1945.

MZ 83 OTU (?)

Letters reported as worn by Wellingtons of this unit.

M2 438 TCG USAAF (c)

Carried by C-47s of 88 Troop Carrier Squadron.

M2 33 MU (c)

Letters allocated to this unit, use not known.

M3 452 Bomb Group USAAF (c)

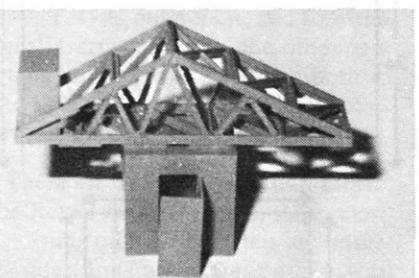
Allocated to 729th Bomb Squadron but never displayed during the war. Possibly used immediately after the war.

M4 587 Squadron (c)

Formed September 1944 and disbanded June 1946. An AAC squadron. Operated an assortment of types, eg Spitfire XVI M4:V-TB304, Oxford M4:HN132, Harvard M4:R-FS767, Martinet M4:16 - HP216, Hurricane 1 M4:O and Vengeance TT IV HB456. □

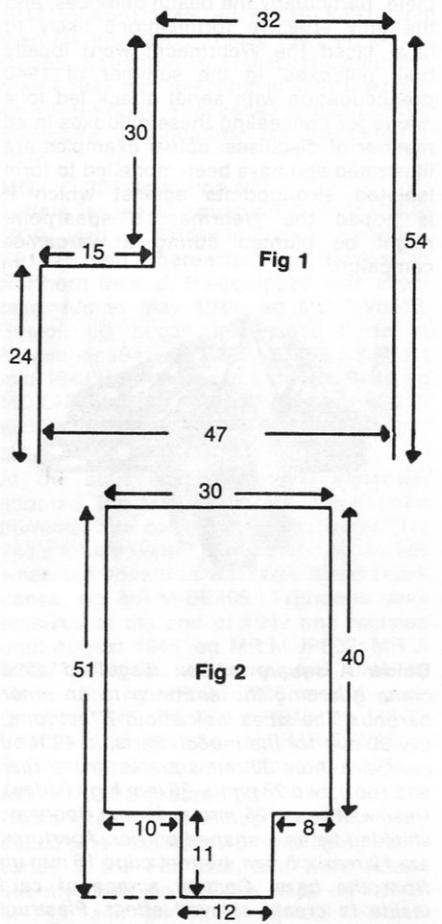
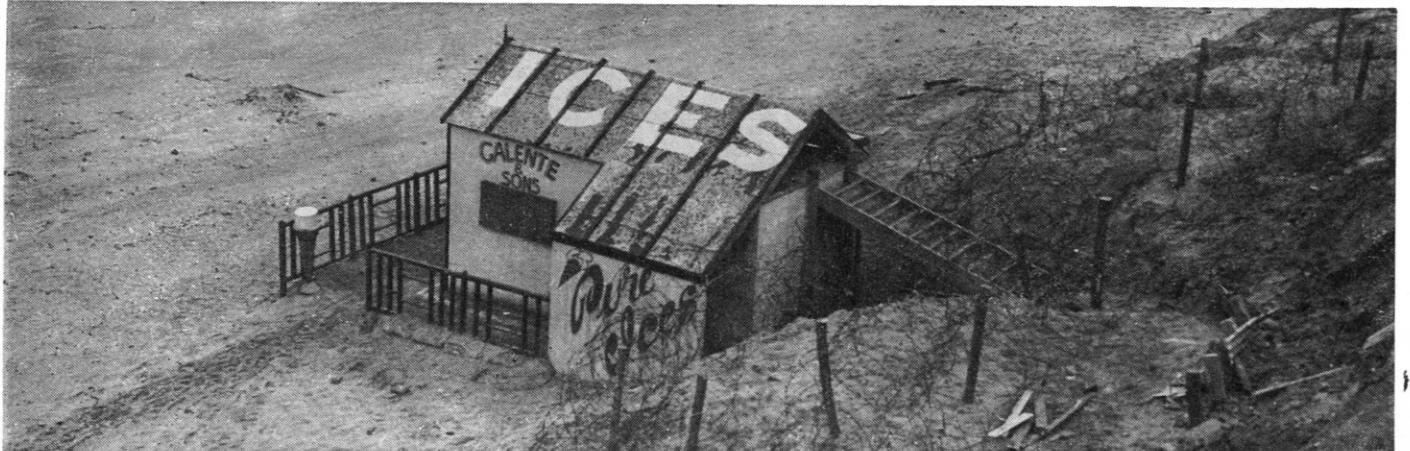
very few and far between; the armour was scattered or concentrated in the wrong places. In July Britain was at her most vulnerable.

In early July, the first possible date for an invasion and the one most likely to be chosen for a wargames campaign, the defences listed above were far from complete, particularly the beach defences, and the only effective fortifications likely to have faced the Wehrmacht were locally built pillboxes. In the summer of 1940 preoccupation with aerial attack led to a mania for concealing these pillboxes in all manner of disguises: actual examples are illustrated and have been modelled to form isolated strongpoints against which it is hoped the Wehrmacht's spearpoint might be blunted during a wargames campaign. □



Below A square pillbox disguised as a crane guarding the entrance to an inner harbour. The sides look about 7 feet long, say 30 mm for the model. Parts, in 40 thou card, are three 30 mm squares (front, rear and roof); two 28 mm x 30 mm high (sides). Rear wall has a 25 mm x 10 mm doorway, shielded by an L-shaped barrier. Apertures are 12 mm x 5 mm, bottom edge 16 mm up from the base. Cement scraps of card inside to create splayed effect. Plastruct girders or parts from the Airfix Signal Gantry form the crane, which can be copied from these two photos. The counterweight box is 20 mm high by 16 mm wide by 12 mm deep. Grey paint was used since any attempt at camouflage would have drawn attention to the pillbox.





Above A false hut on a beach containing a rectangular pillbox, modelled in 40 thou card as shown below left. Pillbox walls 30 mm high by 40 mm wide; front and rear walls 30 mm high by 28 mm wide, fitting between sides. Apertures, doorway and L-shaped barrier as on previous page. Roof as Fig 2. Hut wall lengths shown by Fig 1. All are 31 mm high except the 24 mm length (lean-to) which is 21 mm. 15 mm length of wall connecting lean-to to main building is angled along top edge from 31 mm to 21 mm. 15 mm x 10 mm windows coincide with pillbox apertures and may be boarded up or left open for firing. Roof: 20 mm wide by 56 mm long for plain side, lean-to side the same same for the first 30 mm from front, then 36 mm wide to cover lean-to. Add microstrip as battens every 11 mm. Both parts placed on 'plank' baseboard, 60 mm x 65 mm. Fencing 10 mm high from spares box. Baseboard, with locating frame over which pillbox clips, enables figures to be placed inside building without losing position on the wargames table.

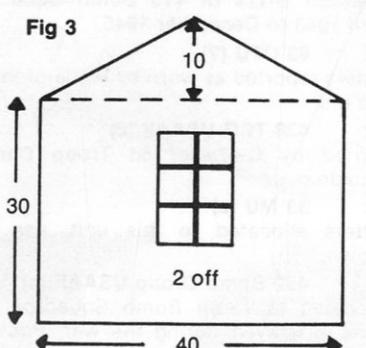
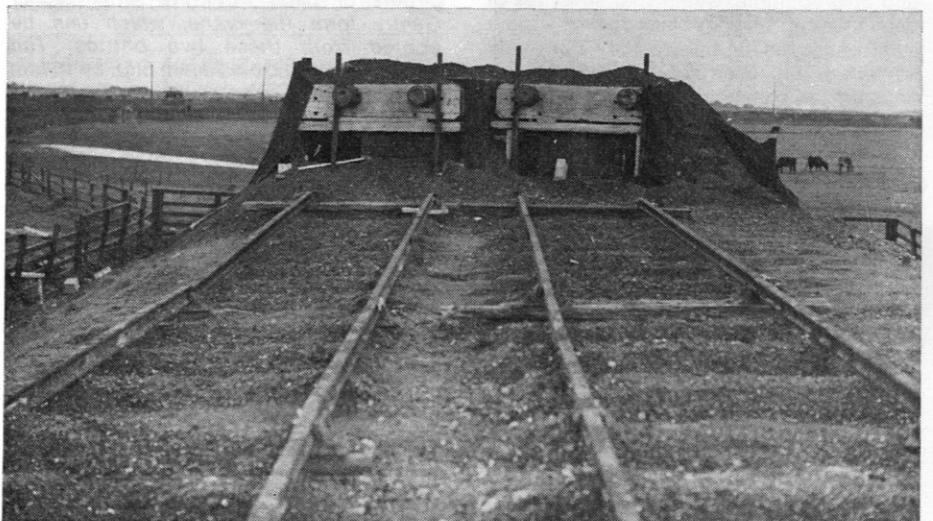
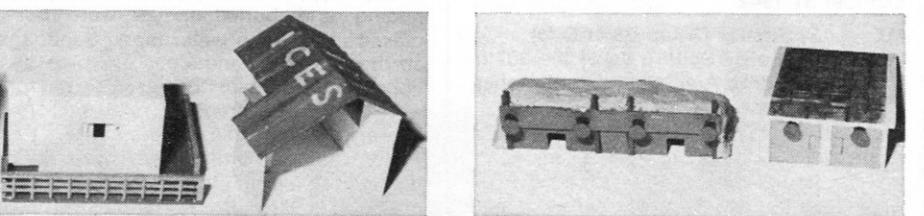


Fig 3 Dimensions for end walls of dummy house concealing a 6-inch naval gun as described on page 334.

F16 The hard hitting Lightweight

Bristling Battlewagon

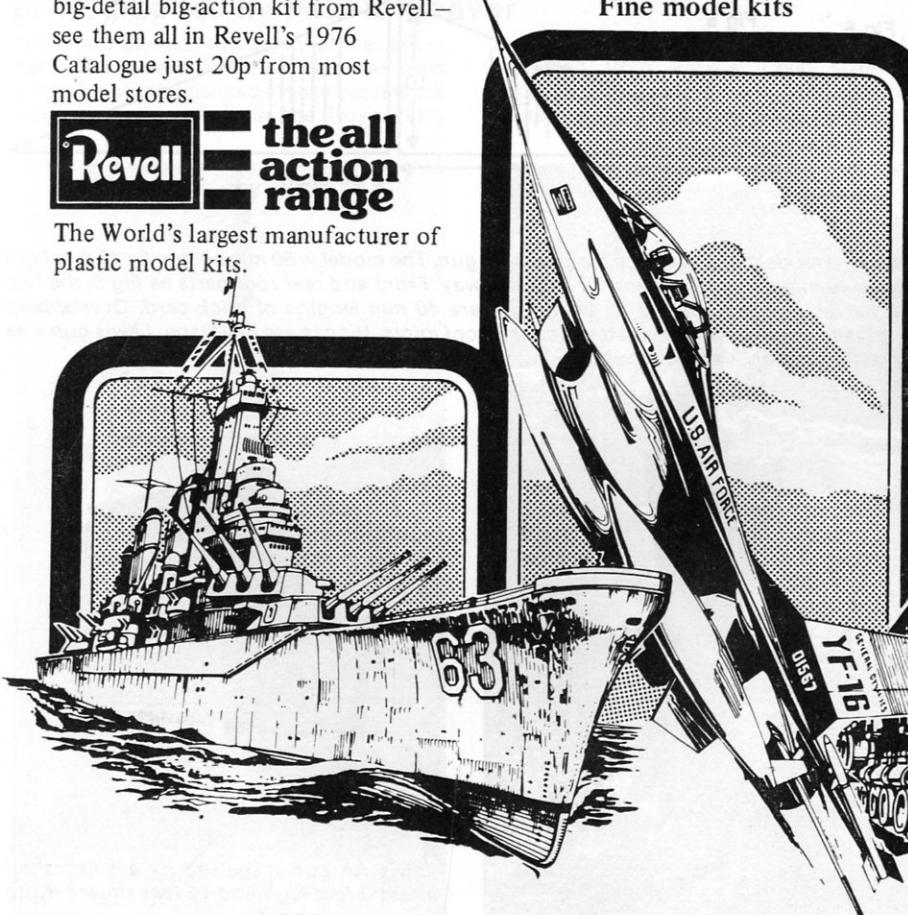
Powerful and historic. That's the USS Missouri, over 45,000 tons of heavily-armed Iowa class battleship, and the actual vessel on which the documents of Japanese surrender were signed in Tokyo Bay. Completed in 1944—and still in reserve today—she saw action in two Iwo Jima landings and the bombardment of shore installations during the Korean War. They called her "Mighty Mo", and Revell's kit of this famous warship shows just why. It builds up into a 20" model which literally bristles with guns—nine 16 inch, twenty 5 inch, eighty 40mm, fifty 20mm. And there's so much down-to-the-seaplanes detail—even to a miniature replica of the plaque which commemorates the moment of Japan's surrender. Yet another big-detail big-action kit from Revell—see them all in Revell's 1976 Catalogue just 20p from most model stores.



Fine model kits



The World's largest manufacturer of plastic model kits.



Snap-together Sherman

No cement needed, no painting necessary—you just snap this Sherman tank kit together, add the US Army markings and you've got a lifelike replica of a famous WWII fighting vehicle. And it acts like it as well! The turret swivels, the 75mm gun moves up and down, and there are two machine guns for extra fire power. It moves too—rumbling purposefully along on smooth, well-hidden wheels.

Yes, it's quite a kit, and so is the Revell German Panzer—the other new tank in this range. See them both at your nearest Revell stockist. And snap one together soon.

There are over 260 all-action kits in the Revell range. Aircraft, ships, cars, motorbikes, dragsters and more besides. Lots of different prices, lots of different scales. Look them over at your model store today.



Revell (GB) Limited,
Cranborne Road, Potters Bar,
Herts. EN6 3JX

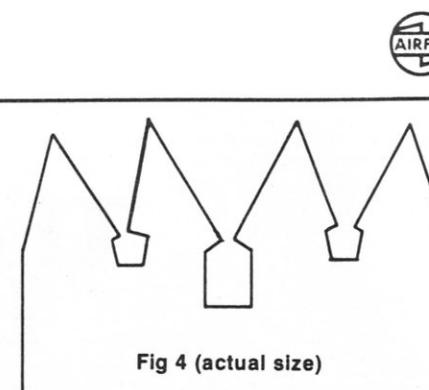
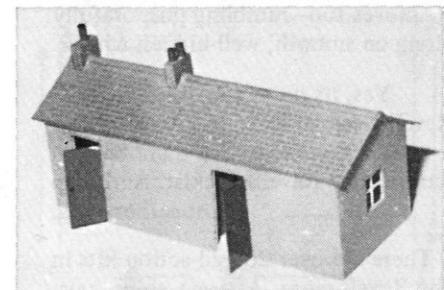
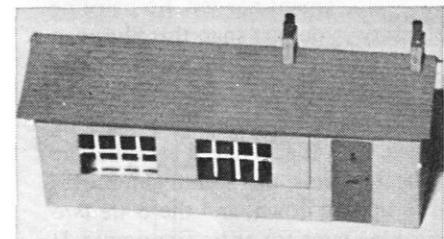


Fig 4 (actual size)

Above left Dummy house of canvas and wood on a factory site, concealing a 6-inch naval gun. Left Three views of completed model, and gun construction. Model is from brick and tile card on a 30 thou backing, overall size 100 mm x 40 mm x 30 mm high (70 mm for gun room, 30 mm for ammo room, divided by a partition wall with doorway). End walls 30 mm x 100 mm with 10 mm x 25 mm doorway for each room. Front wall 10 mm high for 70 mm, then 30 mm for front of ammo room, with dummy door. Gun is Airfix 5.5-inch with recoil buffers removed and 12 mm of same cemented along each side of barrel. Shield made as Fig 4 above. Gun mounted on 32 mm disc of 40 thou card, rotating on 37 mm square of card. False front panel, detachable, is 70 mm x 20 mm with two dummy windows. Roof is two 104 mm x 24 mm pieces capped by chimneys of balsa and tubing.

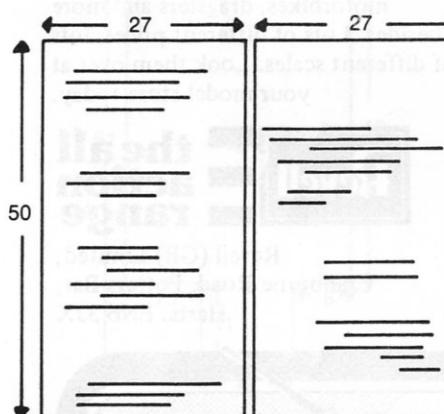


Fig 6

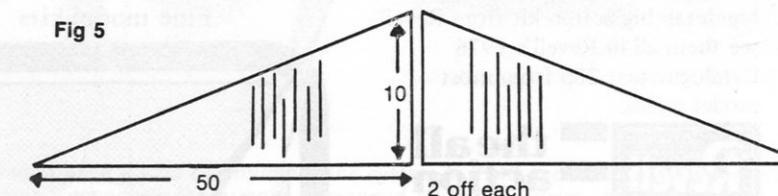
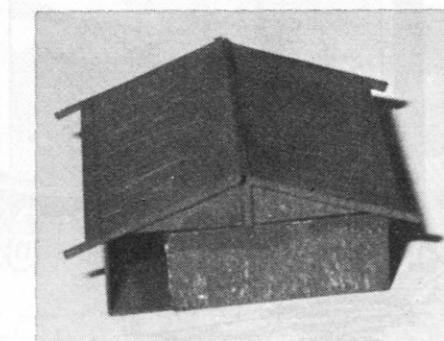
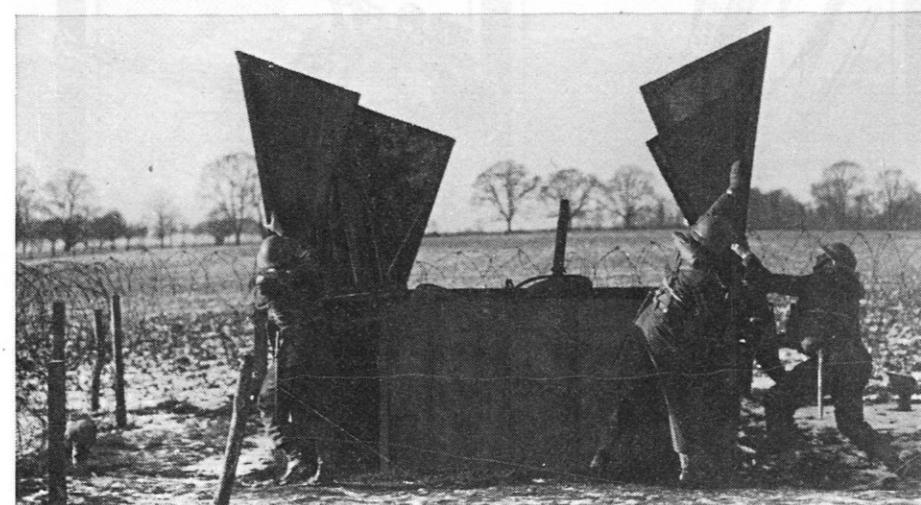
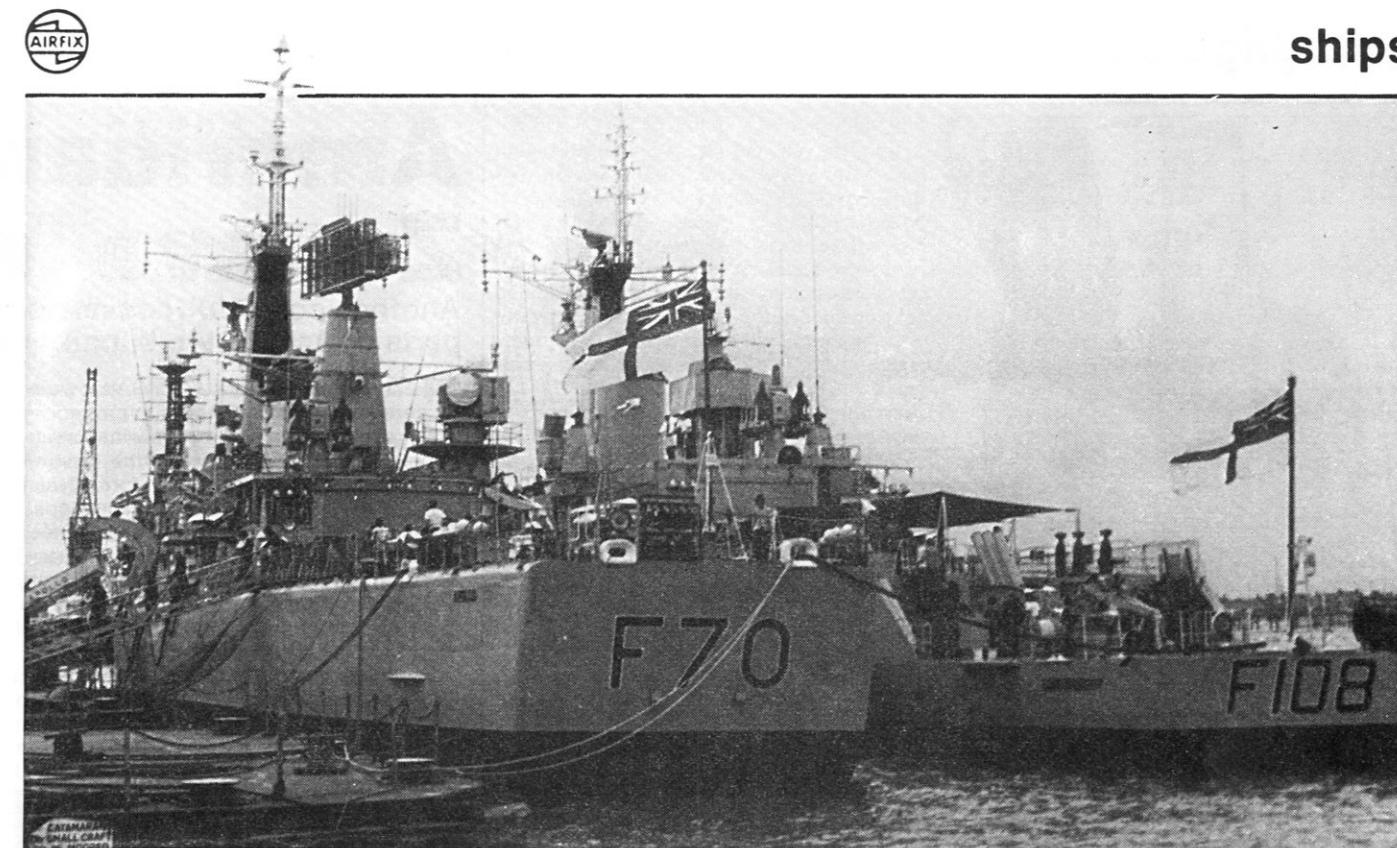


Fig 5

Making a model shed to conceal a Lewis AA gun. The model is 50 mm square by 15 mm high with a 49 mm square floor and 10 mm doorway. Front and rear roof parts as Fig 5, the two top halves as Fig 6. Beams to swing roof are 40 mm lengths of thick card. Overlapping lengths of microstrip were used to conceal roof joints. Hinges are Sellotape. Lewis gun was a plastic tube on a sprue mount.



Lewis AA gun disguised by a small shed about 3 feet high and 12 feet square. Note crews' equipment.

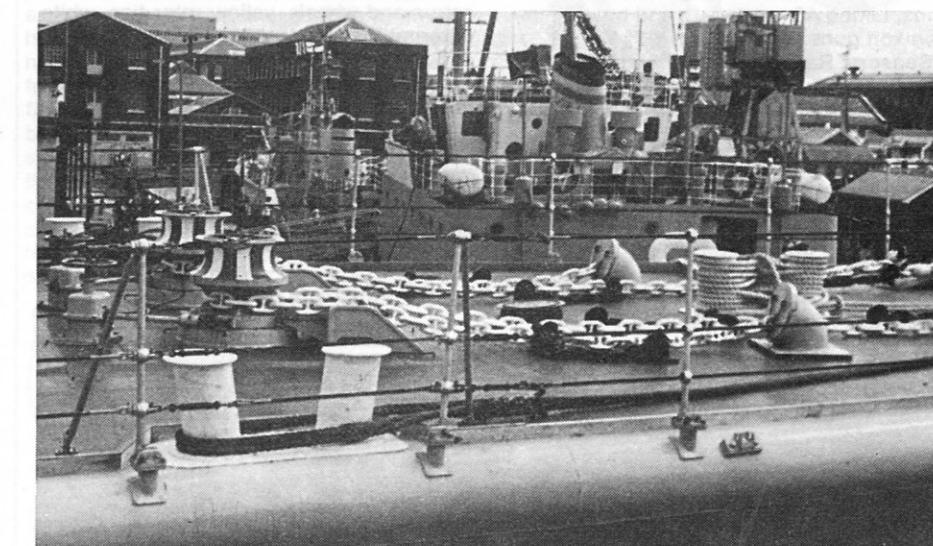
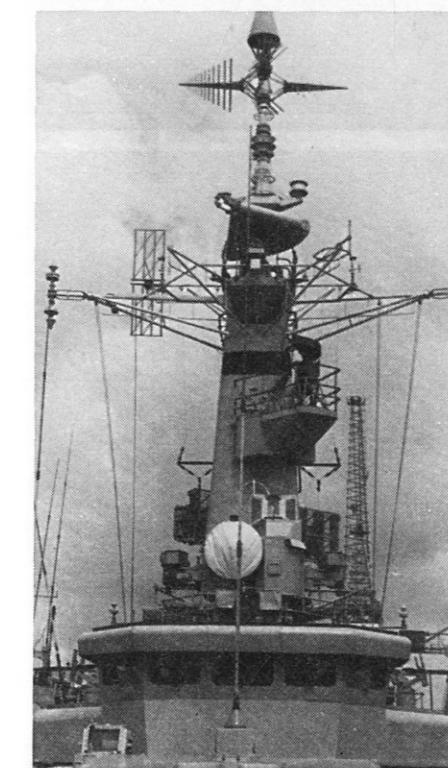


Adding detail to HMS Apollo

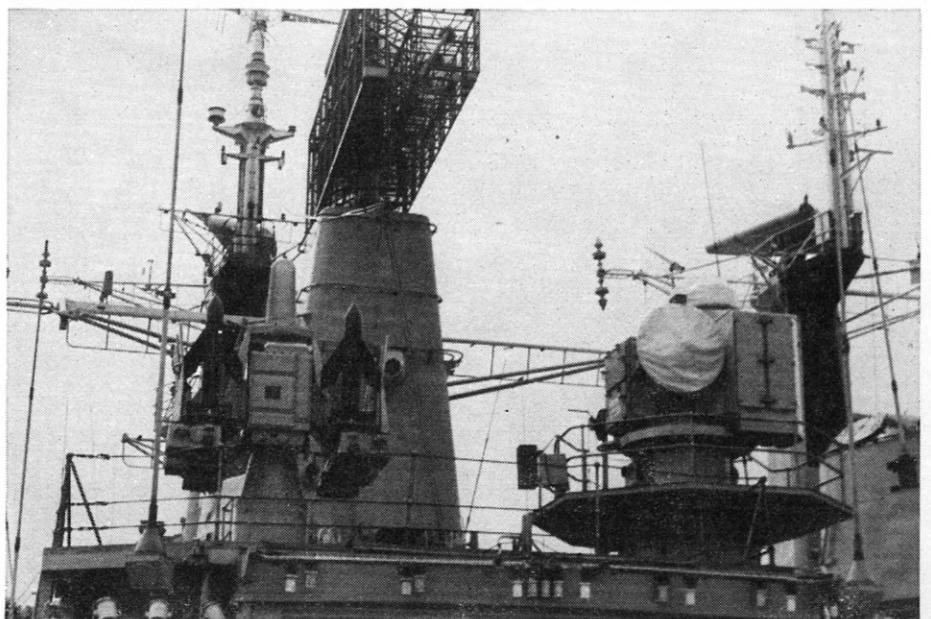
The penultimate 'Leander' described and photographed by Paul E. Beaver

THE GOOD SEAKEEPPING ability of the 'Leander' Class general purpose frigate has been a feature which has made these vessels the largest warship class in the Royal Navy

since World War 2. 26 'Leanders' can be modelled from Airfix's 1:600 scale kit because 26 'Leanders' have been commissioned in the Fleet from HMS Leander in



Top of page HMS Apollo on left berthed next to HMS Londonderry of the 'Rothesay' Class. Both vessels have similar dimensions, the former being developed from the latter. Left Foremast and bridge detail looking aft from foredeck. Note aerials, radars and director. Above Deck detail right forward. Note capstans painted red/white, white bollards and fairleads. Deck itself is dark green.



The view from the Flight deck looking forward. Note especially the Seacat launcher and director on top of the hangar, also Flight deck floodlights and whip aerials.

most of the NATO countries, being in Norway during the summer. This Clyde-built ship (motto 'Strong and Kind') is the ninth *Apollo* in the Royal Navy and at the moment is Portsmouth based and serves with F4 squadron; hence the red '4' on her funnel. She also wears the black funnel topping of a Leader.

Her Wasp helicopter is coded 470 at the present time and its pilot can recognise his ship by the flight deck code of AP.

Technical data: Length 113.4 m; Beam 14 m; Cruising speed 30 knots; Range 4,500 nautical miles at 12 knots; Displacement 2,450 tonnes (standard), 2,860 tonnes (maximum).

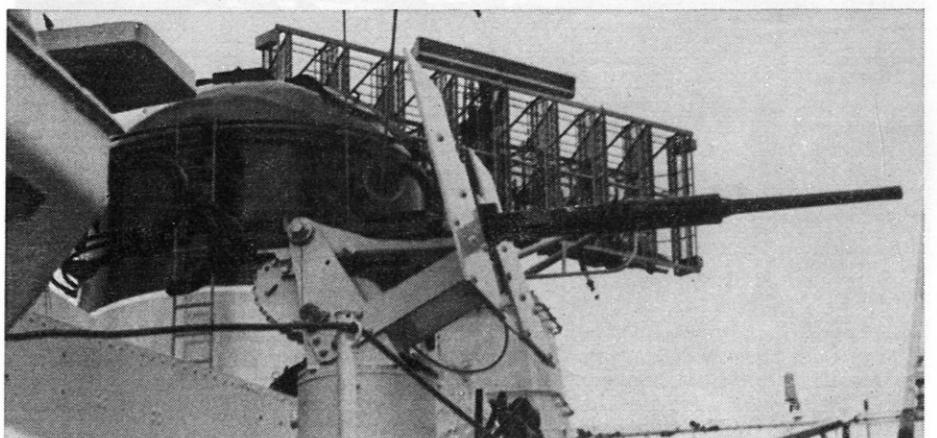
Armament: Seacat AAM launcher for anti-ship and anti-aircraft defence; Wasp HAS 1 with homing torpedoes or missiles; Two 114 mm (4.5-inch) general purpose guns; Limbo AS mortar aft; and two 20 mm Oerlikon guns.

Sensors: Radars include Types 995, 993, 978, 903, 262; Sonars include Types 171 and 184 plus a Variable Depth Sonar (VDS) Type 199.

Colour scheme

Mid-grey Superstructure, hull, turret, breakwater, fittings including winches,

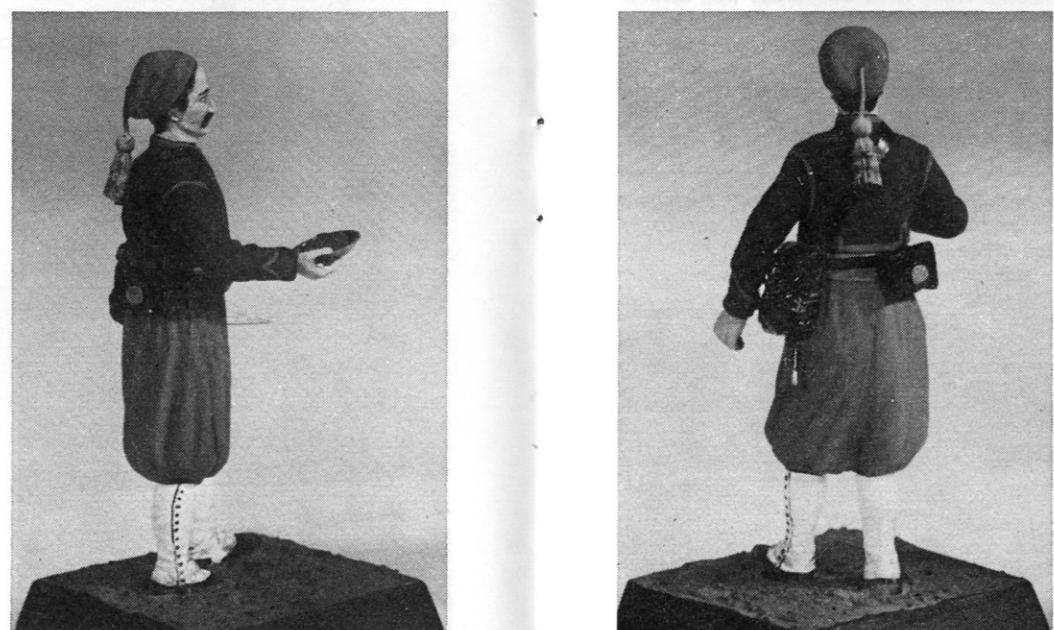
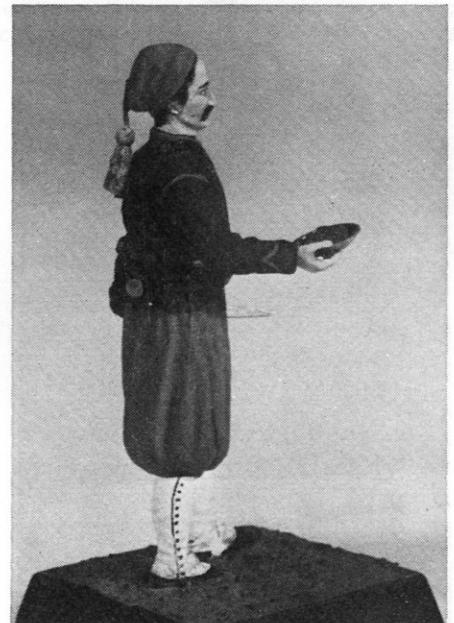
20 mm Oerlikon GP gun, starboard mounting. Gun is mid-grey with black breech and barrel. Note black funnel cap denoting a Leader.



American Civil War Zouave in 54 mm

Another colourful conversion using Airfix and Historex parts from Martin Windrow and Gerry Embleton

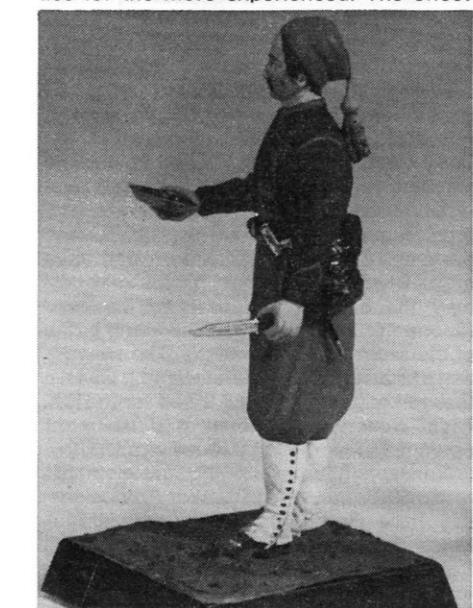
THE EARLY YEARS of the US Civil War were rendered more colourful than might otherwise have been the case by the widespread popularity — on both sides of the Mason-Dixon line — of extravagant uniform styles inspired by France's North African troops. France was, in the years before the *Année Terrible* of 1870, the most chic military power in the world, and imitation of zouave and *chasseur à pied* dress and drill was a feature of the numerous volunteer militia companies from which both Union and Confederacy drew the bulk of their armies. It had previously been assumed that these eccentric uniforms quickly wore out, to be replaced by ordinary Government issue; but further research now indicates that in



many cases they were jealously preserved throughout the great part of the war.

One unit to cling to its distinction was the 5th New York, 'Duryée's Zouaves', a regiment which served with great success alongside regular infantry in Sykes' Division of the V Corps of the Union Army. At Gaines' Mill, while suffering heavy losses under fire, it attracted attention by calmly 'counting off' and re-dressing to take up the gaps in its ranks.

The conversion described in this article is rather more demanding than those covered in previous months, but while it may be a bit challenging for the younger modeller it opens up a number of possibilities for the more experienced. The effect



we are trying to achieve is very like that illustrated in the accompanying painting of the 146th New York: structurally, our model differs from the painting only in that the 5th New York wore a sash with a stiffly braided end hanging down the front of the left thigh; that — like all zouaves when on campaign — our model has stowed away the white turban wound around the soft fez when on parade; and in button detail.

Head Use any well-moulded one you like, but those from the new Airfix 8th Army Multipose set are especially good and have usefully long necks. Make the fez from body putty or carve it from scrap plastic. The tassel in our model was cut down from a French Napoleonic plume from the Historex spares range, mounted on a bit of stretched sprue.

Torso The Historex range includes a torso wearing a French stable-jacket over a waistcoat, the jacket buttoned at the throat and falling open lower down. This is our basis. Carve the skirts of the jacket shorter and round the front corners. Open the throat a little, and cut down the collar until you achieve the shape illustrated. Carve and file the now-exposed lower part of the waistcoat into a sash. Remove all buttons except a single one at the throat of the waistcoat — which has now become a shirt, of course. Add the hanging sash end from plastic card.

Legs are from two sources. The baggy sarouel trousers are carved down from the Historex Mameluke legs, and cut off below the knee. The calf-length gaiters come from any pair of gaitered legs you like, from the spares box. There is really nothing more to say about this operation — the details of carving and matching must be up to the individual.

Arms are up to you, as long as they have wrist-length sleeves and match the torso in size; position depends on the chosen animation.

Equipment This comprises a cartridge pouch on a waist-belt which also supports a cap-pouch and bayonet scabbard, and a haversack on the left hip. The belt and haversack strap are made in the usual way from the plastic card provided with Airfix figure kits. The conventional socket bayonet in its scabbard is from the Airfix spares box, mounted at a slight angle on the left hip. Its attachment to the belt is covered by the haversack, made here from a carved chunk of soft scrap plastic, with a Historex buckle and strap-end. The cap-pouch on the right front of the belt is the

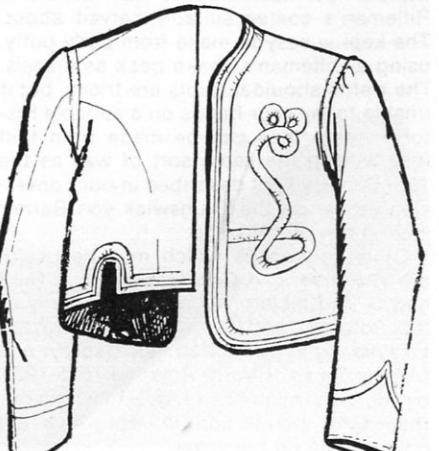


Right Front and rear braiding detail of 5th NY Zouave jacket. Note line of braid around shoulders. Left Rough sketch of trouser pocket braid, outside right leg shown here. Haversack and bayonet will probably obscure left leg.



Zouave of 146th NY. Red fez and tassel, white turban, light blue shirt, jacket and trousers with yellow braid, white gaiters, black leather equipment, red sash.

central section of the Airfix 95th Rifleman's bullet pouch, carved down. The cartridge box worn behind the right hip is from the spares box; any Airfix or Historex spare will do, with an oval plate added to the flap.



This, and the main belt buckle, are shaved slices from a piece of sprue filed to shape. The rifle-musket, if used, can be represented fairly well by judicious carving around the lock area of a French Napoleonic musket. We used a tin plate from the marvellous Historex sprue of plates, pots, cups and cauldrons; and a Bowie knife filed from an Airfix Afrika Korps bayonet. The pose selected may be described, perhaps, as: 'To you it may be stew, buddy; but to me it's still mule!'

Painting

Fez Red, bright azure blue tassel and stem. **Shirt** Dark blue, single brass button at neck, strip or red braid around collarless neck and down front join. **Jacket** Dark blue, red bading as line drawing herewith. **Trousers** Red, azure blue pocket piping on outside of thigh as in photos. **Sash** Red, azure blue stripes top and bottom, azure blue triangle on hanging end, as photo. **Gaiters** White. **Belt, cartridge pouch, cap-pouch, bayonet scabbard, boots** Black leather effect. **Belt and pouch-lid plates** Brass. **Haversack and strap** Gloss black (tarred cloth) effect. (NB Various versions of this uniform have been illustrated, differing in minor details; here we have followed the researches of the American artist George Woodbridge, a more recent source than the others generally quoted.)

Alternative suggestions

The basic shape having been mastered, Civil War zouaves of many colour-schemes can be produced. The accompanying illustration of the 146th NY suggests one alternative, but there are others equally colourful. The new Blandford title *Uniforms of the American Civil War*, by Haythornthwaite and Chappell, offers a feast of reference. Of interest are the 9th New York zouaves, in dark blue and purple, illustrated as Plate 19 of that book; the 114th Pennsylvania (Plate 26); the Maryland Guard Zouaves (Plate 52); and of course the famous Louisiana Tigers and Zouaves (Plates 54, 55). Each of these will present the modeller with different minor problems to be mastered, but all are quite possible with available Airfix and Historex bits and pieces. An extremely attractive chasseur uniform is that worn by the 14th New York Volunteers, a sergeant being illustrated in colour on the front cover of this magazine. Note that the jacket, round-bottomed with a false strip of shirt showing at the front and with three close-set rows of buttons, may be made without too much trouble from the Airfix Rifleman's coatee suitably carved about. The kepi is easy to make from body putty, using a Rifleman's shako peak as a basis. The trefoil shoulder knots are tricky, but if unable to lay your hands on a suitable Historex spare they can be made from thin fuse wire in the same sort of way as the 18th Century knot described in our conversion article on the Brunswick von Barner jäger a few months ago.

Other references which may be useful are *The American Civil War* by C. J. Hunt and G. A. Embleton, Almark; *The Army of the Potomac and The Army of Northern Virginia*, by P. R. N. Katcher, Osprey; and *Military Dress of North America 1665-1970*, by yours truly, Ian Allan Ltd — to whom our thanks for permission to reproduce the colour plate on the cover. □



Part 5 — Enter the Blenheim

THE NAME Bristol Blenheim inevitably conjures the image of a day bomber often employed in a formation attack role, successor to the Hawker Hart and Hind and an aeroplane which bore the brunt of much fighting in the first two years of the war. This picture is not entirely true, for the Blenheim was as much a reconnaissance aircraft as anything else. Indeed, during the so-called 'phoney war' — anything but 'phoney' for the Blenheim crews — Blenheims operated mainly in a reconnaissance role. Coastal Command made much use of Blenheims as fighters and reconnaissance aircraft, and Bomber Command used them for strategic reconnaissance for which purpose they found initial employment in the army co-operation squadrons.

A major failing of the Blenheim 1 was that its short nose permitted a poor view for the pilot. Bristol, asked to improve this, first lengthened the nose whilst retaining its contours. Then the upper line of the forward portion of the nose in which the observer/navigator was placed was lowered, but still the pilot's view remained restricted. Finally, a groove was cut in the port side of the nose giving the pilot a better view ahead. This version was designated Mk IV.

From inception this machine was to serve as a reconnaissance bomber, a useful interim type for maritime work until later aircraft types became available as well as for army co-operation duties. Bomber Command already had a Blenheim 1 force. Therefore the Mk IV was initially issued to replace the aged Hectors of Nos 53 and 59 Squadrons.

First to be equipped was No 53 Squadron (unit letters TE) at Odiham where L4835, the first Blenheim IV to enter squadron service, was received on January 19 1939. The squadron was fully equipped by early March 1939, examples being TE:G-L4837 and TE:Q-L4840. Between March and June 1939 No 59 Squadron (PJ) equipped at

Andover with Blenheim IVs. Both squadrons had reformed in June 1937 to operate for the army in a night reconnaissance role using flares. The Hector was quite unsuited to this somewhat sophisticated task, hence re-equipment with the most advanced form of Blenheim immediately it became available.

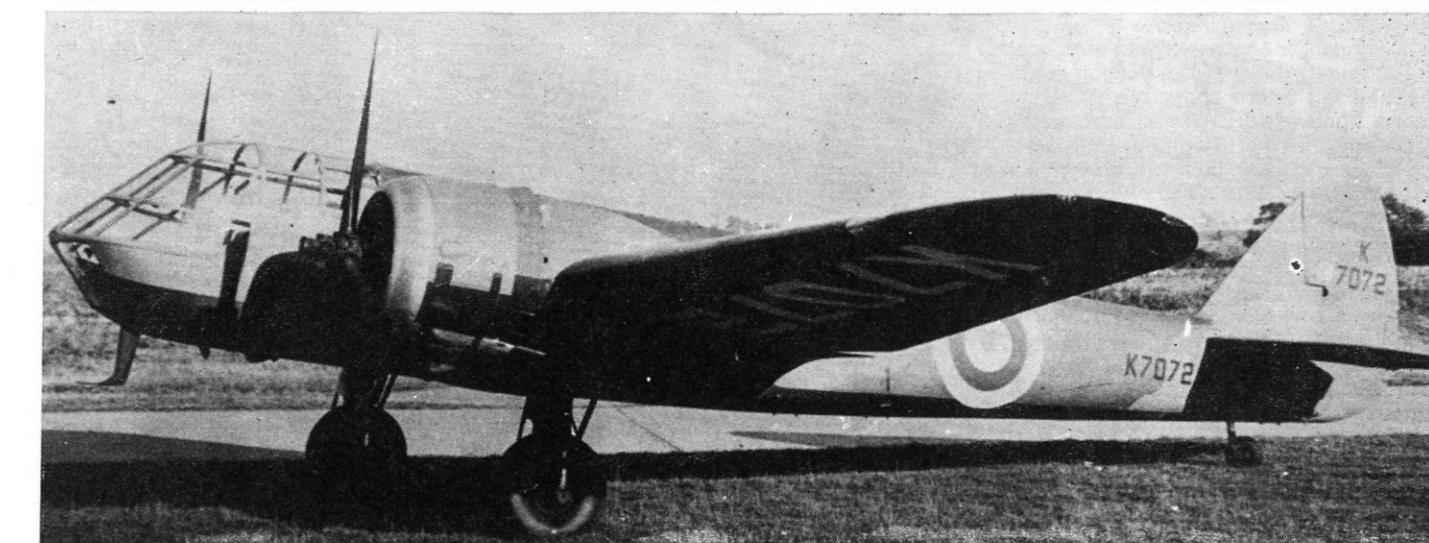
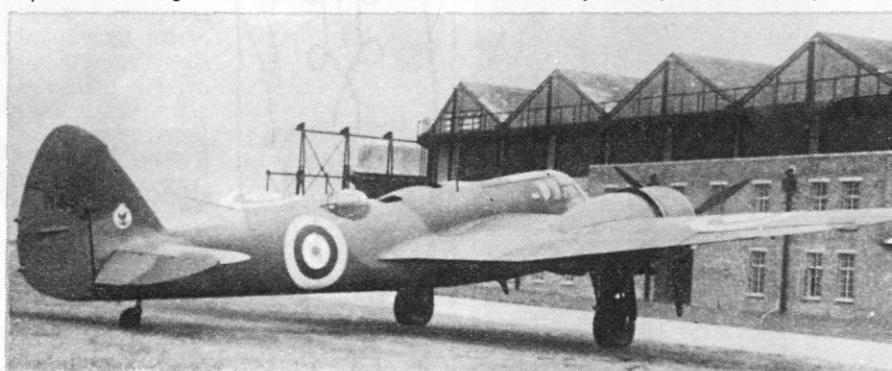
Work up was slow. Aircrew were at first attached to bomber squadrons for conversion, and in the case of No 59 Squadron this had begun in December 1938. But even by September 1939 the squadron was not operational in its difficult task. Indeed, the last Hector did not leave that squadron until September 28 1939. By then the two army co-operation Blenheim squadrons had been committed to the Field Force of the Air Component of the British Expeditionary Force, France.

Part of the problem lay in crew training. The pilot had an additional job to flying the machine for it was his task to make visual reconnaissance, send radio reports and receive radio messages in return. The Sergeant/Observer positioned in the nose of the Blenheim served as navigator, operated the camera and assisted in visual reconnaissance as well as handling some of the radio communications. The air gunner was also a radio operator and it was his task to keep the radio set tuned for the job. Team work was essential, and for night operations the training needed was lengthy.

On September 1 1939 the first elements of No 59 Squadron set out for France sailing from Southampton on the famous *Royal Daffodil*. They established camp at Poix where No 53 Squadron arrived a few weeks later. Strategic reconnaissance patrols for Army GHQ over areas well behind the Siegfried Line began in October in the case of No 53 Squadron, later in the case of No 59, which is believed to have flown its first night reconnaissance sortie, to the Cologne area, on April 1 1940.

The strength of the Blenheim comple-

Among the Blenheim 1s of 57 Squadron which went to France in 1939 was L1145, seen here in 1938 before the adoption of Type B roundels and unit letters. The fin still carries 57 Squadron's badge. The aircraft was lost in France in May 1940 (B. C. Morrison).



The first major revision of the Blenheim was the Bolingbroke 1 which resembled the Blenheim 1 but with a nose transparency sited further forward. The pilot's view was not good enough.

ment in the Air Component was increased when home-based No 2 Group was re-organised at the start of the war. No 18 Wing at Upper Heyford was in the process of re-equipping its Blenheim IVs, but before this could be fully implemented they were switched to Field Force France. During September 1939 No 18 Squadron moved to Beauvais and No 57 to Roye/Amy. In October they took up new stations, No 18 at Meharicourt and No 57 at Rosieres-en-Santerre, bases in use until May 1940. Both squadrons were equipped with Mk 1s until March 1940 when Mk IVs replaced them.

The Blenheims of Nos 18, 53, 57 and 59 Squadrons proceeded to France in their pre-war colours of Dark Green and Dark Earth with black under surfaces. Type B roundels were worn until late 1939 when Type A roundels were applied to the fuselage sides and beneath the wing tips. The camouflage colouring, unsuitable for daylight operations, was retained until Sky under surfaces were gradually applied to

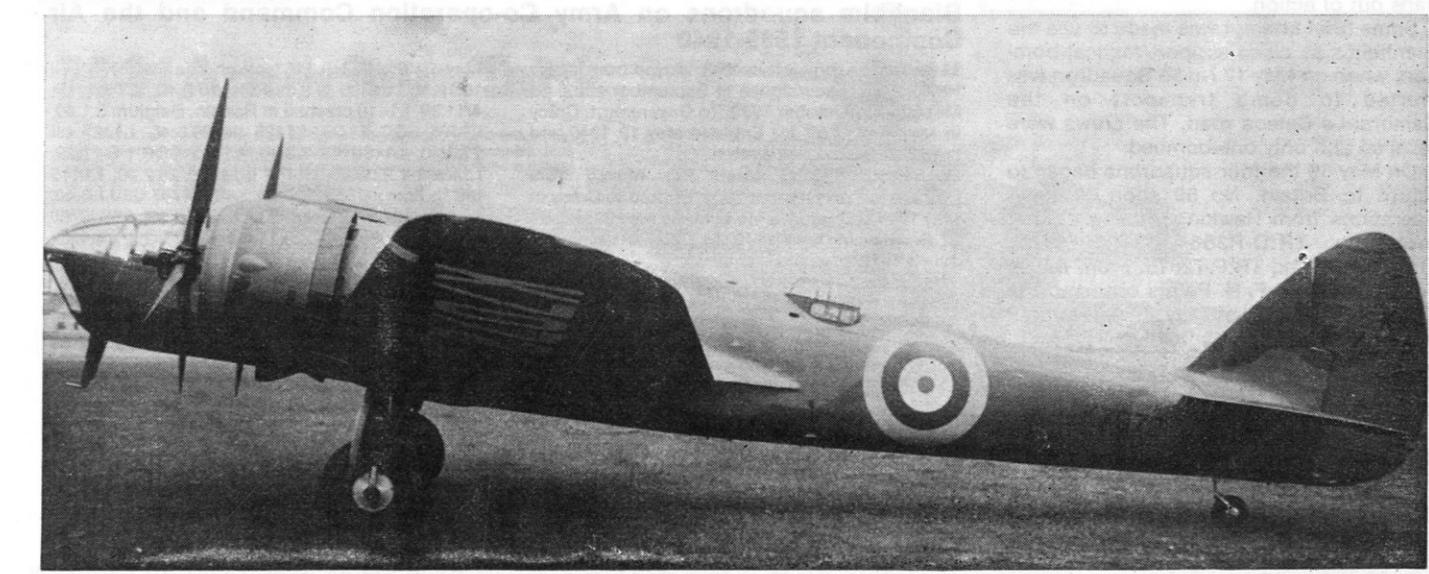
most aircraft during the early weeks of

1940. In the case of the Blenheim IVs of Nos 18 and 57 Squadrons, these wore Sky under surfaces from their introduction to the squadrons. The Sky shade applied in France was probably mixed in the field, for it was a shade of pale greyish-blue not at all like that worn by the Blenheims of Nos 114 and 139 Squadrons painted at Wyton and Heston late 1939 which was of a greenish shade. Squadron letters (unit lettering aft) was a medium shade of grey. Fin stripes of varying styles, and yellow surrounds to fuselage roundels, were added around the time of the opening of the battle for France. As with other squadrons in France, the Blenheim units exhibited a variety of sizes and styles of national identity markings.

Some aircraft, in keeping with those of 2 Group, had their under surfaces brought some way up the fuselage sides and terminated in broad wavy lines. Sky trim on the noses of the Blenheims varied too.

Back up for crew training was the task of the School of Army Co-operation. At first a few Blenheims trickled into the SAC at Old Sarum, but a change of policy sent them to

K7072 was subsequently further modified by having the pilot's windscreens brought closer to his position, and the nose scalloped ahead of the pilot. This version became the Blenheim IV, a variant of the aircraft which was looked upon more as a reconnaissance machine than a bomber.



a twin-engined training echelon at Andover which for a few weeks was known as 'School of Army Co-operation No 22 Group Pool'. Bomber and Fighter Commands operated Group Pools through which aircrew passed for operational training after their periods at Flying Training Schools. No Group Pool existed in 22 Group, and the twin-engined training school at Andover was renamed No 2 School of Army Co-operation in which all Blenheim training was centred. Following the fall of France this unit which became No 6 Operational Training Unit concentrated on training crews for Coastal Command.

Operational employment of the Blenheims in France was spasmodic. Their main task was to obtain photo and visual reconnaissance of enemy land forces behind the front lines. Operations for No 57 Squadron began on October 13 1939 when Wing Commander H. A. M. Day and crew in L1138 were sent to view road and rail activity in the Hamm-Soest area and failed to return. The same day L1147 was ordered to the Munster-Bremen area. Weather was

aircraft

poor and the aircraft ran out of fuel and crash-landed in England. Three days later L1141 sent to the Wesel-Bocholt-Essen area did not return and probably fell to enemy fighters. On October 30 a reconnaissance of the Siegfried Line was attempted by L1139, then by L1146 which was attacked by Bf 109s and returned damaged to Orly.

Few operations were flown in November but they cost two Blenheims. Three sorties over the Siegfried Line were undertaken in December and a few sorties in January 1940 when L1280 was shot down over Germany. Only two sorties were flown in February after which operations were halted until May 1940 since conversion to Blenheim IVs was to take place. The volume of operations was similar for the other squadrons.

The intensity of action in May 1940, and its rapid movement, put the Blenheim squadrons at great disadvantage. Their bases were heavily raided. Retreat was soon forced upon them. What was needed by the BEF was fast, accurate reconnaissance of the enemy advance, not strategic reconnaissance of rear positions for which the Blenheim force was trained. In the former role the Lysanders were employed to a limited extent and the Blenheims' employment by day resulted in a high attrition rate.

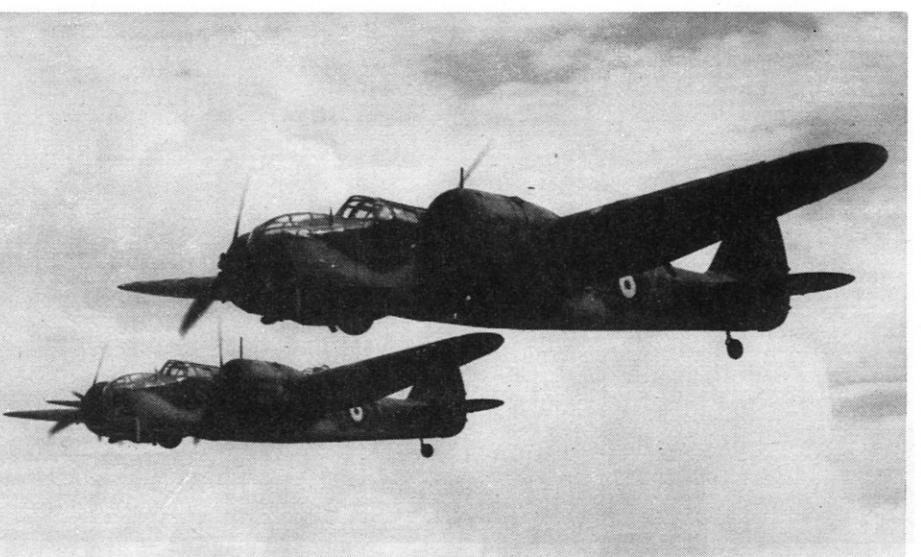
Between May 10 and 19 the fully committed four squadrons saw much action despite the high risk involved by lone bombers in fighter zones. Activities of the squadrons are sparsely recorded anywhere, many records being lost in the evacuation from France. Thus it would be most interesting to hear from any readers who served with the squadrons at this time.

No 59 Squadron was in action from May 10 when TR:I-N6169 flown by Flying Officer H. F. Wood reconnoitered the Maastricht bridges and crossing points over the Turnhout Canal. For safety he hedge-hopped home. Another sortie to the same targets came next day, and L4856 operated over south Holland. The dangers inherent in such operations were brought out on May 16 when N6168 operated in the Louvain area. Flak was encountered, then Hurricanes, mis-identifying the Blenheim, fired upon it. N6168 landed wheels up and with flaps out of action.

Some brief attempt was made to use the Blenheims as close support/tactical bombers when on May 17 No 59 Squadron was alerted to bomb transport on the Cambrai-Le Cateau road. The crews were recalled and only one bombed.

On May 19 the four squadrons began to return to Britain. No 59 soon resumed operations from Hawkinge, using aircraft including TR:D-R3664, TR:B-L8790, TR:M-L8793 and TR:P-T2815. From R3664 Flying Officer J. F. H. Peters observed the Dunkirk evacuation on May 28. Anti-aircraft fire hurled the aircraft onto its back. Two of the crew jumped clear then the observer drifted into enemy hands. As the pilot parachuted down shots entered his parachute before he was rescued and brought home by sea. A few sorties were flown from French airfields after the BEF had been snatched from Dunkirk.

For the Blenheim squadrons, as with the Lysander squadrons, the campaign for France had proven a disaster.



Above Photographs of the reconnaissance Blenheims in France seem never to have materialised, but this picture of two bombers of 139 Squadron gives some indication of their appearance in early 1940. Under surfaces are Sky with slight differences in demarcation with the upper surface camouflage, clearly evident on the noses of these two machines. (IWM). **Below** The fate of many of the Blenheims remains obscure. The end of Mk IV L9248, DX coding identifying 57 Squadron, can be seen here. Sky under surfaces terminate in a wavy line, the fin striping is clear. Also in the graveyard are Morane Saulnier MS 406s, whilst a Bf 109 above flaunts its ascendancy (via J. Goodwin).



Blenheim squadrons on Army Co-operation Command and the Air Component 1939-1940

18 Squadron (unit letters WV). Moved from Upper Heyford to Beauvraignes in September 1939. To Méharicourt October 1939. To Guyancourt, Crécy in May 1940. Left for England May 19 1940 and re-joined 2 Group at Watton.

53 Squadron (unit letters PZ). Moved from Odham to Poix October 1939. Retired to Crécy in May 1940 and returned to Lympne May 20. Based at Gatwick in June 1940, to Coastal Command July 3 1940.

57 Squadron (unit letters DX). Moved from Upper Heyford to Roye/Amy September 24 1939. To Rosières-en-Santerre October 17 1939, to Poix May 18 1940 (via Crécy). Left for England May 19 1940. Rejoined 2 Group at Wyton May 22 1940.

59 Squadron (unit letters TR). Moved from Andover to Poix September 1939. Returned to England May 23 1940 via Crécy and was then based at Lympne. Operated from Eastchurch in May 1940 and was based at Odham in June 1940. Transferred to Coastal Command in July 1940.

Bristol Blenheims used by Army Co-operation Squadrons and the Air Component (Field Force) between January 1939 and 30 June 1940.

18 Squadron. Aircraft used between 1.9.39 and 19

May 1940: Mk 1: L1161 off charge 5.40, 1261 till 18.10.39, L1405 9.3.39-FTR 10.5.40, L1407 till 4.11.39, L1410 crashed at Raeren, Belgium 3.1.40, L1405 SOC 11.39, L1425 till 29.3.40, L1427 till 21.3.40, L1430 till 2.3.40, L1435 CDBR 8.11.39, L1438 till 22.8.40, L1444 crashed 25.2.40, L1445 left in France, L6757 till 4.2.40, L6787 till 11.3.40, L6785 till 13.2.40, L6788 till 30.11.39, L6800 till 30.3.40, L6809 till 28.11.40, L6811 till 16.4.40, L6812 till 10.8.40.

Mk IV: L8860 9.3.40 - FTR 10.5.40, L8861 9.3.40 - FTR 30.5.40, L8862 15.3.40 - 4.7.40, L8863 20.3.40 - ?, L8864 12.3.40 - 20.5.40, L8866 4.3.40 - SOC 8.40, L8875 4.3.40 - left in France, L9185 1.4.40 - FTR 2.5.40, L9186 13.3.40 - lost in France, L9190 27.2.40 - 6.3.40, L9191 13.2.40 - lost in France, L9254 15.3.40 - lost in France, L9255 1.4.40 - FTR 10.5.40, L9257, L9325 8.5.40 - FTR 21.5.40, L9472 13.5.40 - FTR 8.8.40, L9473, R3590 15.4.40 - FTR 12.5.40, R3732 16.5.40 - 23.5.40, R3733 16.5.40 - 6.7.40.

53 Squadron. Aircraft used between 19.1.39 and 22.5.40: Mk IV: L4835 19.1.39 - 24.7.39, L4836

Continued on page 342



KFZ 223 GERMAN SCOUT CAR

Another fine Armoured Car following on the popular 222. The widely used Sd Kfz 223 carried a medium range wireless set. This required a rectangular frame aerial mounted on four supports hinged to the body which could be lowered to reduce the silhouette. The kit reproduced this detail faithfully and comes complete with Commander figure and Decals. £1.50

KVII RUSSIAN TANK

The long awaited Military Miniature of the Russian Heavy Tank KV-II. Gigant as its name suggests, was a large tank standing over 13' high. First fitted with a 122 mm Howitzer, later replaced by a 155 mm Howitzer, this vehicle was successful as a siege weapon but was not very mobile. Kit contains superb detail, Commander figure and realistic Decals. £2.80

NEW 4 POWERFUL MODELS

FROM TAMIYA

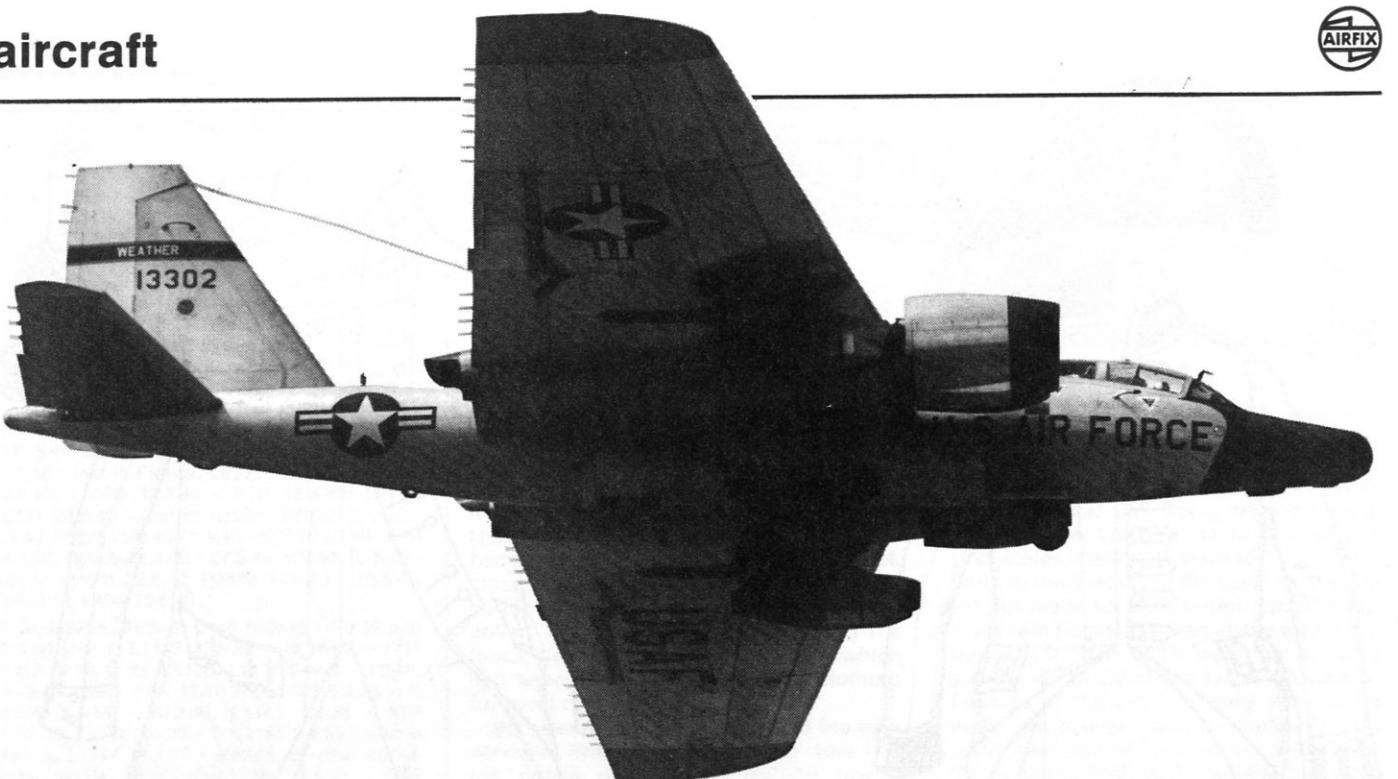
LEOPARD

The modern German Leopard is now available as a Military Miniature as well as in 2 motorised forms. The kit contains a Commander figure, very fine detail and superb Decals. It retails for only £2.70. The Leopard is the main competitor to the British Chieftain and both employ a similar gun of 105 mm calibre.

M41 American Tank

The U.S. Light Tank M41 was designed to provide mobile fire power and crew protection for reconnaissance and troop support. It is widely used by NATO countries and is now available in three different versions from Tamiya. The new Military Miniature, GO276, priced at £2.20. The single motor version, GO266 at £2.99 and the action-packed Remote Control at £3.99.

ALL IN 1/35 SCALE



RB-57F from a Canberra

Bryan Philpott describes a challenging 1:72 scale conversion for model aircraft enthusiasts

THE RELEASE last year of the Airfix kit of the BAC Canberra opened the door to a multitude of conversions of this fine aeroplane. Four variants were featured in the April 1975 *Airfix Magazine* but these only scratched the surface of those which can be done by the dedicated conversion addict. At that time I mentioned the possibility of moving over the Atlantic to take a look at the American-built Canberra and its derivatives, but when those words were written I did not have in mind perhaps the most changed Canberra of all, the RB-57F.

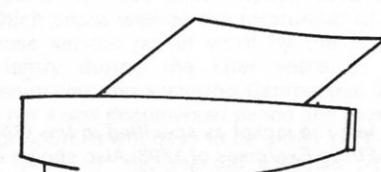
It is perhaps incorrect to claim this aircraft as a Canberra variant, but since it can definitely trace its ancestry back to the original Martin licence-built machines, it is not stretching a point too far.

The conversion is certainly a challenging one and borders more on the line of scratch-building than straightforward kit modification. But in it I saw several opportunities to experiment and hope that readers might also like to try venturing along what was to me, fairly new ground. Before going on to look at the actual construction of the model, a few facts about the RB-57F will not come amiss.

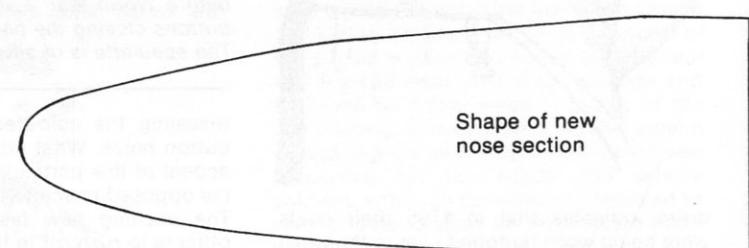
The Canberra is the only aircraft of foreign design to be adopted for use by the US Air Force since World War 2 and, in its original form, was more or less identical to the B Mk 2.

One such aircraft, WD940, was flown across the Atlantic in August 1951 to act as a pattern aircraft for the Glenn-Martin Company who had acquired the licence to manufacture it in the USA in April of the same year.

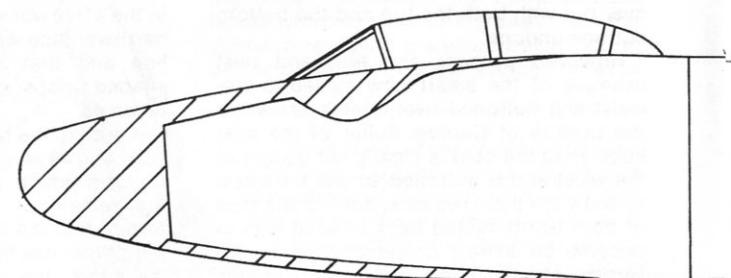
The first aircraft to leave the production line were designated B-57A and differed



Outer poded engine and pylon



Shape of new nose section



Modified fuselage showing new nose and fin/rudder from Airmold kit

1:72 scale

only in engineering changes and the fitting of Wright J65-W-1 engines from the original British-built aircraft. A conversion to this type basically involves only a change in paint scheme and the adoption of United States National insignia.

The following version, known as the B-57B, had a new forward fuselage providing tandem seating for the two-man crew, provision in the wings for eight 0.5-inch machine-guns or four 20 mm cannon, a rotary weapons bay, and wing pylons. This is not a difficult conversion and one that will follow in this series in due course.

Over 200 of this version were built and it served with the USAF until 1959, when it was gradually phased out of front line service, although it continued to soldier on with the Pakistan Air Force and the Air

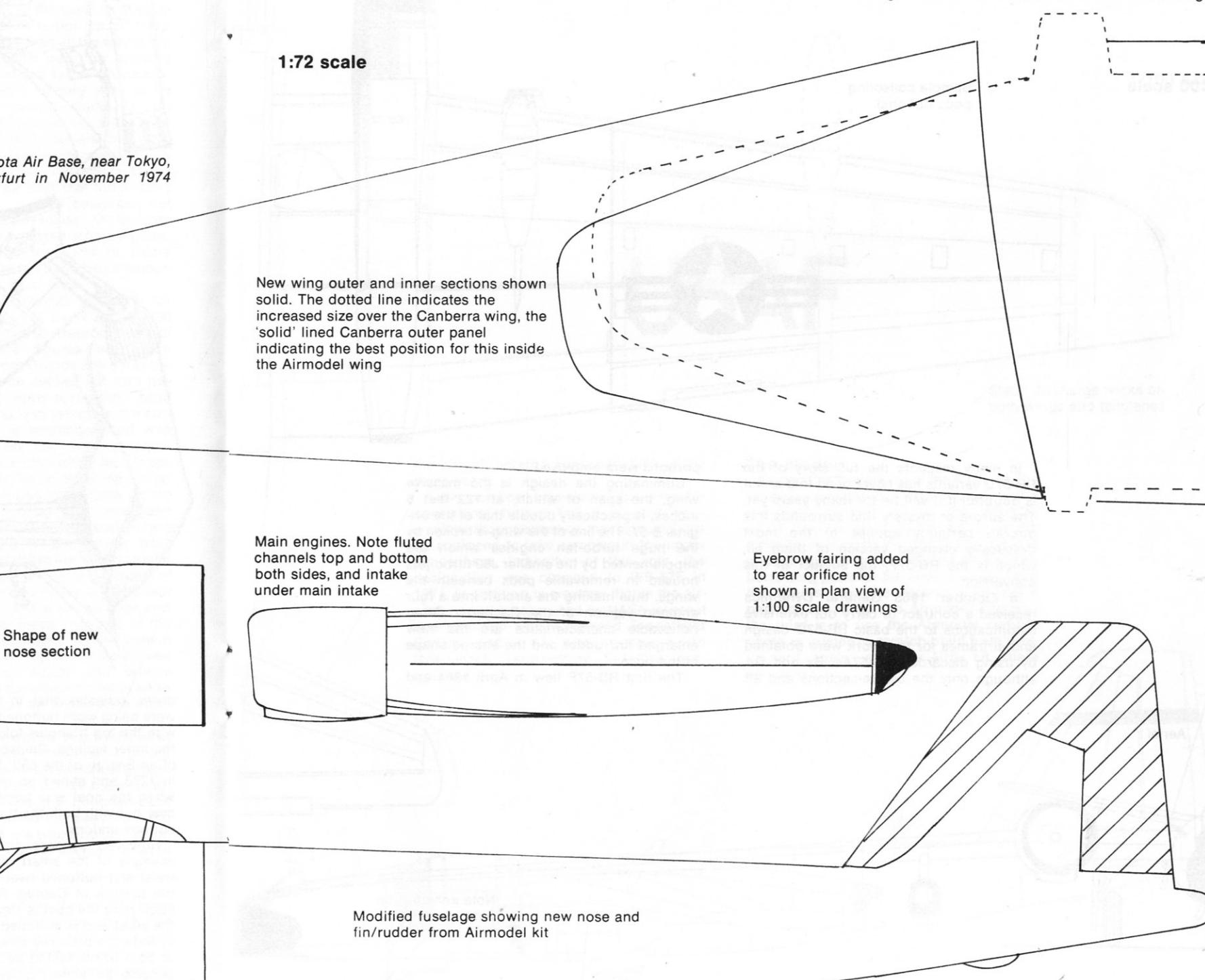
National Guard.

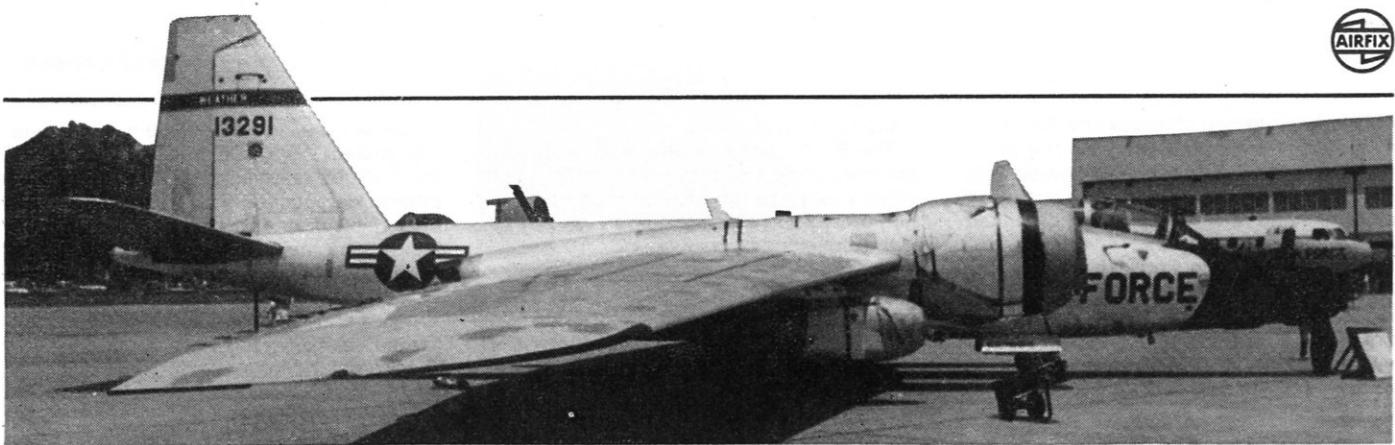
The B-57C was basically a 'B' with dual controls and 38 of these were built, again being passed to the ANG and the Pakistan Air Force. Some of these aircraft were fitted with fuselage camera bay for reconnaissance work when they were designated RB-57B.

The first major visual change, which started to alter the complete appearance of the B-57, came with the RB-57D which was evolved for electronic and photographic reconnaissance. Although the fuselage remained similar to the earlier versions, the wing shape was completely altered and the first of the 'long span' aircraft saw the light of day. 20 examples of this aircraft were produced and only six remained as two-seat versions, the balance of 14 being

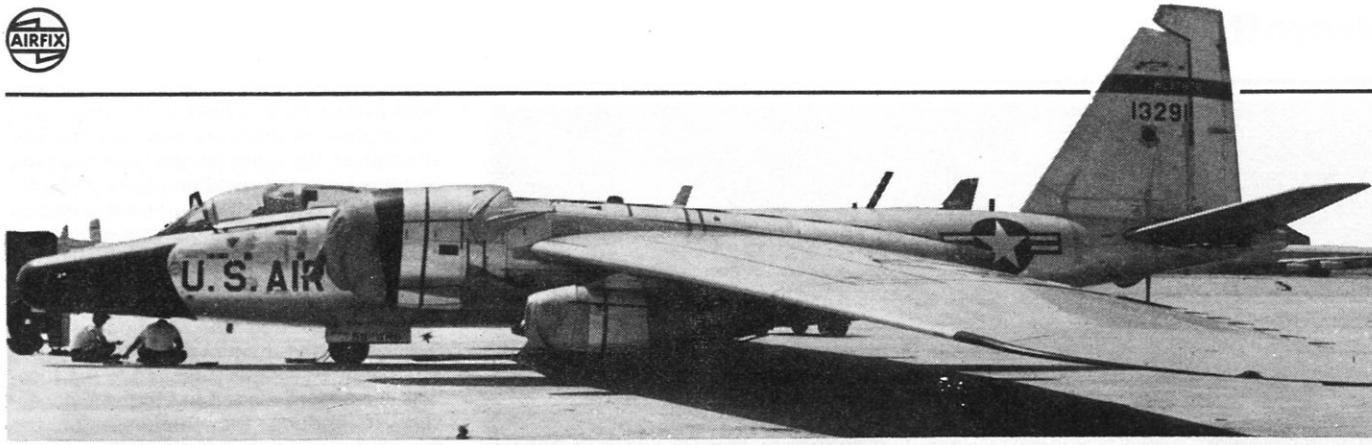
single-seaters. The two-place aircraft were designated RB-57D2s and had provision for in-flight refuelling while most of the others were called RB-57D(C). Some of these aircraft underwent many changes in their shape including a variety of bulbous noses and other similar blisters carrying ECM equipment. Overall lengths and wingspans varied depending on equipment carried but during this transitional stage the span crept up to over 107 feet and the length over 67 feet.

The final version was the B-57E of which 68 were built, these being used in the reconnaissance role as the RB-57E and the training role as TB-57E. This version was also used for target towing when it was equipped with towing equipment in a container mounted beneath the rear fuselage.





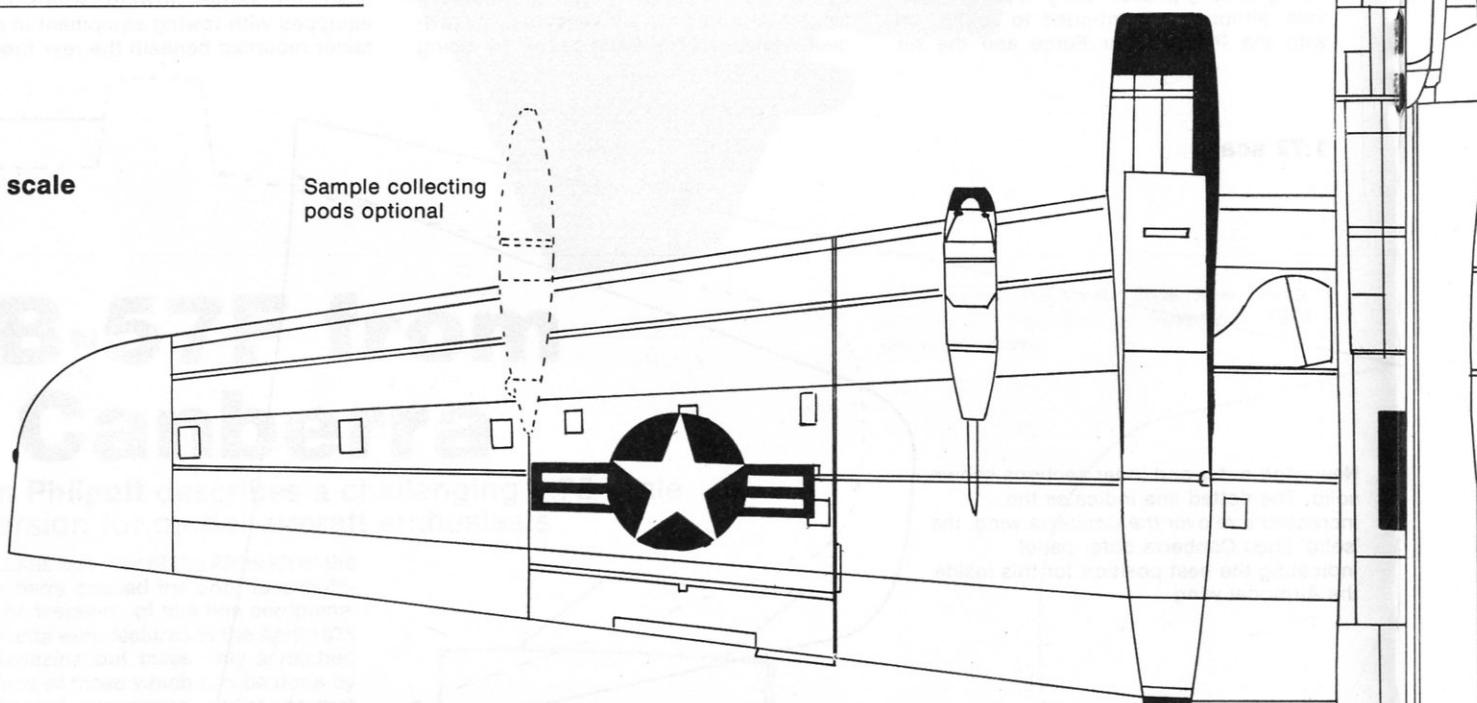
Starboard view of RB-57F 13291 as modelled by author (Aviation News).



Port side view of the same aircraft (Aviation News).

1:100 scale

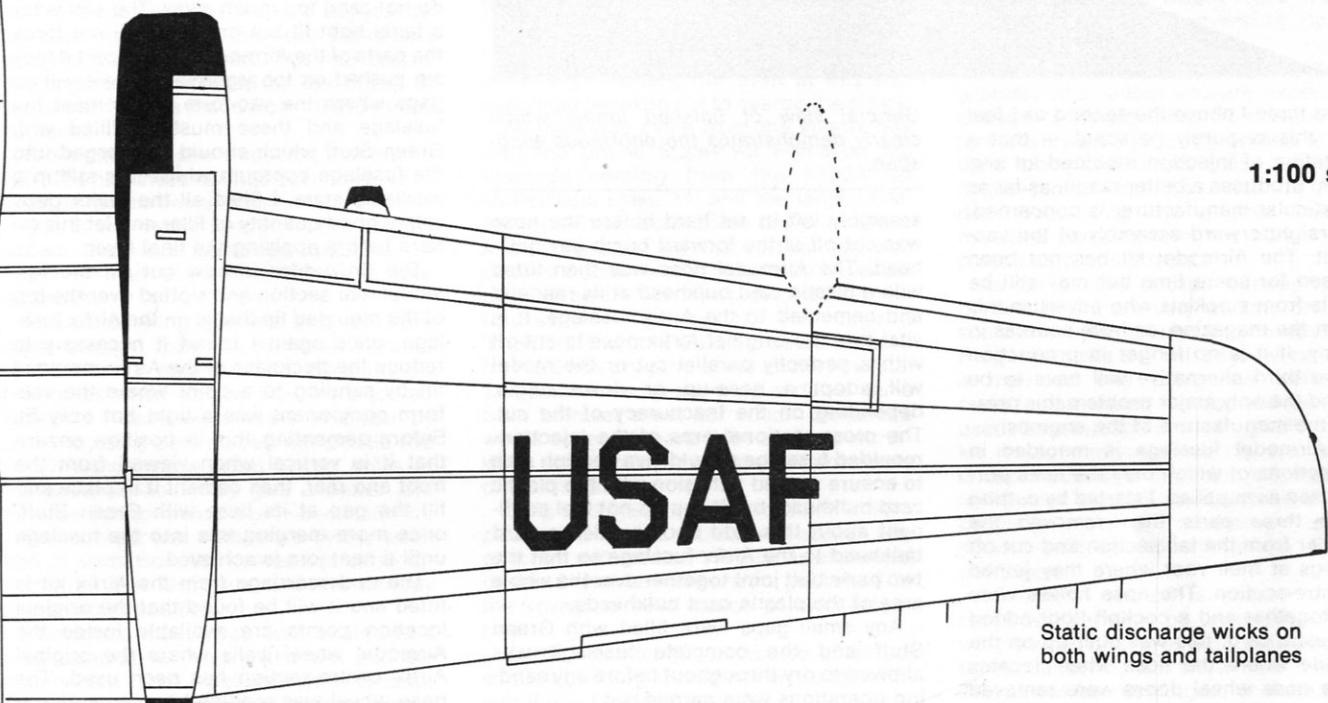
Sample collecting pods optional



1:100 scale

USAF

Static discharge wicks on both wings and tailplanes



In many respects the full story of the RB-57D variants has never been told and it is doubtful if it will be for many years yet. The aura of mystery that surrounds this aircraft certainly applies to the most drastically changed version of them all, which is the RB-57F, the subject of this conversion.

In October 1963 General Dynamics received a contract to carry out extensive modifications to the basic RB-57D design and airframes for this work were obtained by using discarded RB-57As, Bs and Ds, although only the centre-sections and aft

portions were employed.

Dominating the design is the massive wing, the span of which, at 122 feet 6 inches, is practically double that of the original B-57. The line of the wing is broken by the huge turbo-fan engines which are supplemented by the smaller J60 turbo-jets housed in removable pods beneath the wings, thus making the aircraft into a four engined version of the Canberra. Other noticeable characteristics are the new enlarged fin/rudder and the altered shape of the nose.

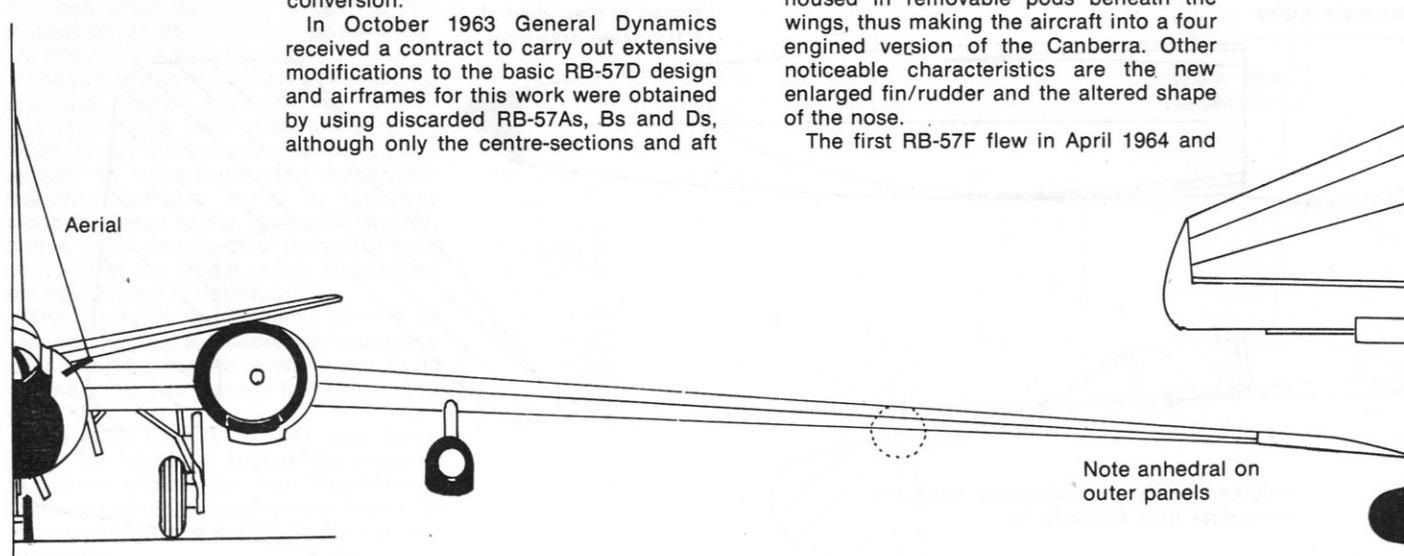
The first RB-57F flew in April 1964 and

the aircraft entered service in June of the same year.

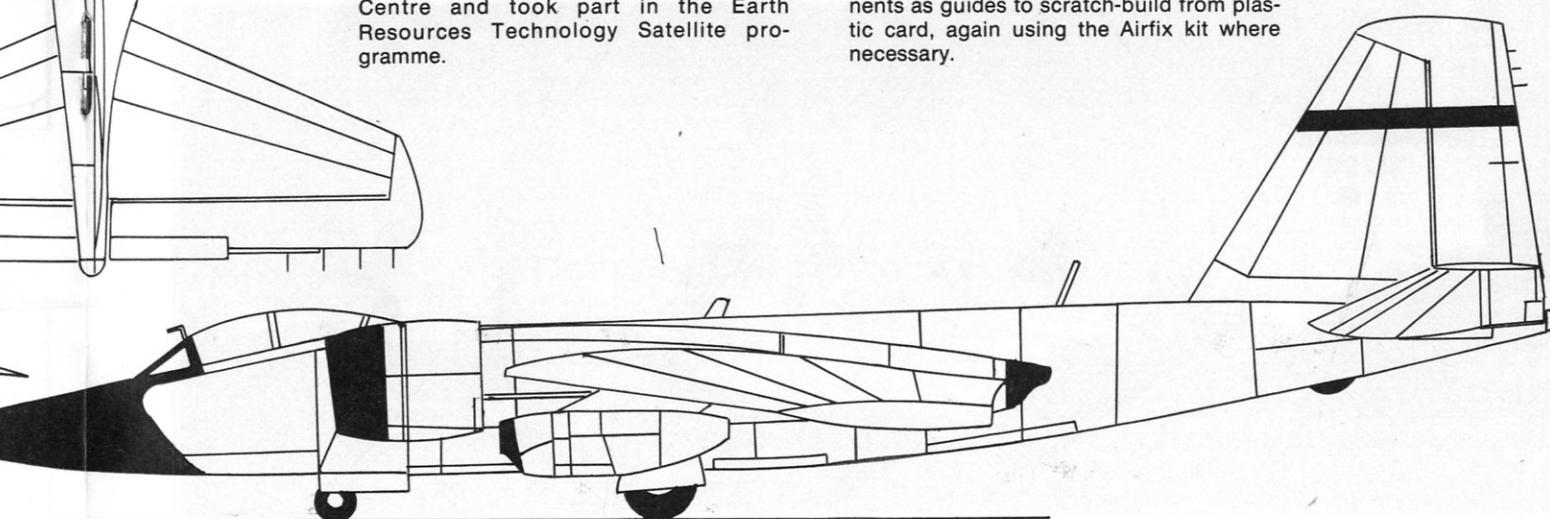
Little has been revealed of the aircraft's operational history but it is used as a weather reconnaissance machine and can be equipped to take samples in the upper atmosphere. Indicative of this role, the designation was changed to WB-57F in 1971. In addition to weather flights the aircraft has also been used by NASA where it was operated by the Manned Spaceflight Centre and took part in the Earth Resources Technology Satellite programme.

The model

Soon after the release of the Airfix kit, the German company Airmodel brought out a complete vac-form kit of the WB-57F, which opened three options as far as the modeller is concerned. The first of these is to build the Airmodel kit exactly as it comes borrowing parts for the undercarriage from the spares box; the second is to utilise parts of the Airfix and Airmodel kits; and the third is to use the Airmodel components as guides to scratch-build from plastic card, again using the Airfix kit where necessary.



Note anhedral on outer panels



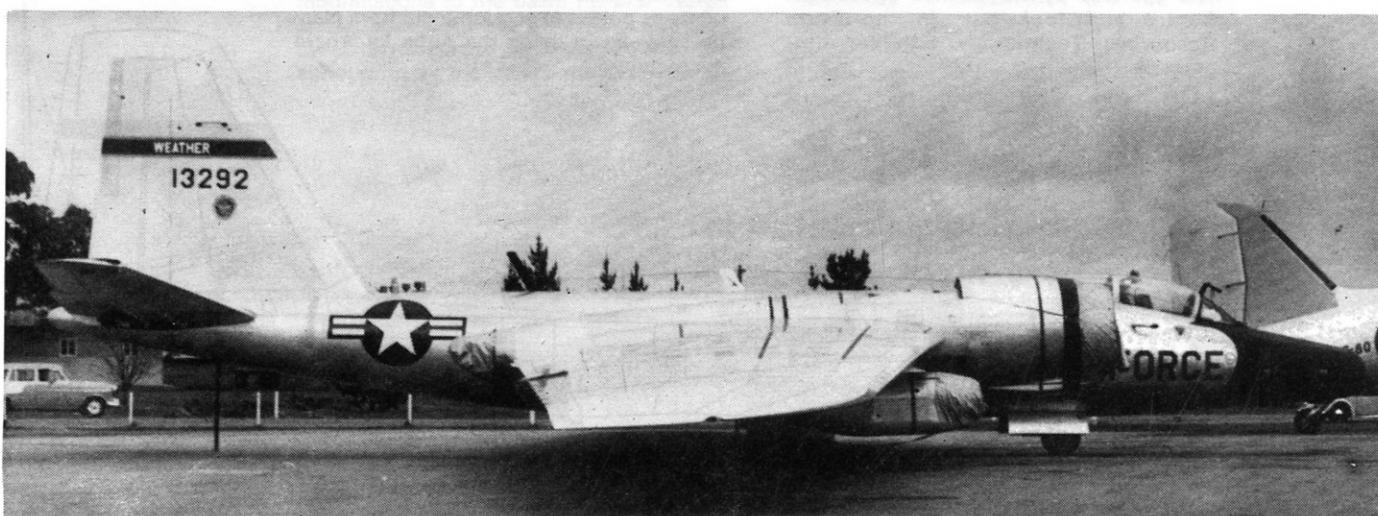


Of the three I chose the second as I feel — and this is purely personal — that a combination of injection moulded kit and vac-form produces a better result, as far as this particular manufacturer is concerned, than straightforward assembly of the vac-form kit. The Airmodel kit has not been advertised for some time but may still be available from stockists who advertise this range in the magazine, or from sources in Germany. If it is no longer in production then the third alternative will have to be used and the only major problem this presents is the manufacture of the engines.

The Airmodel fuselage is moulded in three sections of which only the nose portion is used as supplied. I started by cutting out the three parts then removed the fin/rudder from the tail section and cut off the wings at their root where they joined the centre-section. The nose halves were joined together and a cockpit floor added from plastic card, this was built up on the underside where the nose wheel locates and the nose wheel doors were removed from the moulding. During this operation weights were added to the nose and for this I used fishing weights held in position with Plasticine.

The Airfix fuselage was assembled as the kit instructions, leaving out the front bulkhead (part 19) and the rudder (parts 22-23), the bomb bay was inserted and the whole

RB-57F 13292, apparently photographed in Australia (Aviation News).



from plastic card, added to the insides of the engines at the front and rear. To add strength to the outer panels I removed the engines from the remains of the Airfix kit wings and placed the outboard sections inside the Airmodel wings. This is optional but the span is such that I feel it is well worth doing as they add rigidity to the vac-form parts.

After cementing the Airmodel wings together I fitted them over the stubs of the Airfix centre sections attached to the fuselage. To ensure a good fit I found it necessary to reduce the thickness of the moulded sections by sanding with a coarse grade wet and dry. Do not overdo this operation and check frequently so that you do not sand too much away. The aim is for a fairly tight fit but one that will not force the parts of the Airmodel wings apart if they are pushed on too vigorously. There will be gaps where the vac-form wings meet the fuselage and these must be filled with Green Stuff which should be merged into the fuselage contours whilst it is still in a workable state. I filled all the major gaps with a good quantity of filler and let this go hard before applying the final layer.

The fin/rudder is now cut off the Airmodel rear section and slotted over the top of the moulded fin that is on the Airfix fuselage. It is vital that the original Airfix nose is cut-off with a perfectly parallel cut or the model will adopt a nose-up or down angle, depending on the inaccuracy of the cut. The cross-sectional area of the injection-moulded fuselage should give enough area to ensure a good adhesion with the plastic card bulkhead, but if you do not feel confident about this, add another plastic card bulkhead to the Airfix fuselage so that the two parts butt joint together over the whole area of the plastic card bulkheads.

Any small gaps were filled with Green Stuff and the complete fuselage was allowed to dry throughout before any sanding operations were carried out.

Whilst this sub-assembly was drying I cemented together the complete Airfix wings, omitting the engine parts and ailerons (parts 42, 43, 44, 45, 46, 47, 50 and 51). The inboard section was then cut off just inboard of the engines and the two remaining stubs cemented into the location slots in the fuselage.

The wheel wells were cut out of the Airmodel wings before the two halves were fitted together and blanking plates, made

The Airfix tailplanes are assembled exactly as the kit instructions and cemented into their original locations.

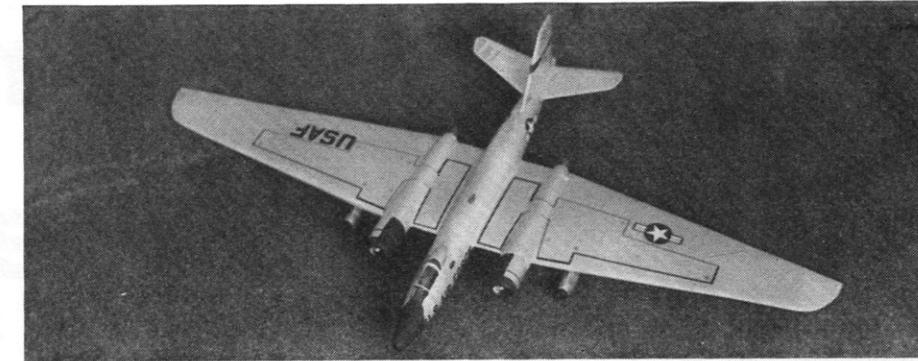
I left the removal of the front and rear of the Airmodel engines until the model was at this stage. The rear orifice simply required a hole drilled in the middle and then enlarged with a round file. For the intake I again drilled a small hole in the centre then cut several radii from this out to nearly the outer rim. The ends of the radii were then joined with more cuts until the unwanted area was removed. This left a jagged periphery which was easily tidied up with a half-round file. Centre cones for the engines came from suitably sized bomb sections taken from the spares box but before these were positioned a suggestion of vanes was added to the inside bulkheads with strips of plastic card. The rear end of the engines are finished by the fitting of 'eyebrow' fairings made from 10 thou plastic card.

From photographs it appears that not all RB-57Fs had these fairings but I chose to fit them as the particular finish I had selected, which is the centre spread in Profile 247, shows that this particular machine — 13291 — had them at the time it was recorded.

The outer wing podded engines were made straight from the Airmodel kit and, like the main engines, had blanking off bulkheads fitted before they were joined together. These were fitted in place by using locating pins made from plastic rod which were inserted into drilled holes in the undersurface. This give a better join than the butt joint that is provided in the kit.

The cockpit was completed by the addition of seats from the spares box or modified from the Airfix kit, and the canopy cemented in position.

The whole model was then treated to a final clean-up with very fine wet and dry after which it was polished with Brasso, then washed in detergent before a matt white coat of paint was applied overall. Final blemishes were filled or sanded out then the black areas on the nose and engines painted. These areas were then masked out and the model sprayed overall with Woolworth's Household Aluminium paint. This paint gives a dull natural metal look which in my opinion is better than a bright overall silver. A model of this size lends itself admirably to the technique of various toned panels which can look false



Another view of the completed model, a 'must' for all Canberra fans.

on smaller models, but even at this size care must be taken not to overdo the effect.

All markings came from the spares box with the United States Air Force on the fuselage coming from the F102A on Modeldecal sheet 11, and the large USAF

red, by laminated plastic card fitted in place after complete removal of the Airfix fin.

The engines would present the biggest problem and unless you are experienced enough to mould these from balsa wood formers it would probably be best to make them completely from balsa wood. The centre-section can be made as already described using the original injection-moulded parts to form the core for new plastic card components.

As far as the cockpit canopy is concerned, if you are very wealthy or have a spare one laying around, the canopy from a Frog Hasegawa B47 will be ideal, otherwise a moulded one using the well-known male/female mould method will have to be used. Construction of the original Airmodel kit is recommended for the less experienced modeller or the man in a hurry, the composite version for those who like a challenge in their modelling, and the scratch-built component for the out-and-out expert.

Whichever method is chosen the end result will certainly be an unusual model which, when displayed alongside a conventional Canberra, will show how the basic design has been changed, or if alongside, say, a Lancaster, how modern technology has advanced to an immense aeroplane with a two-man crew.

The most useful reference for modellers attempting this model is Profile 247, whilst William Green's *The World's Fighting Planes* also contains photographs and drawings.

RB-57F 13302, location unknown (Aviation News).



8th Army in the desert

Modelling specialised armour, by John Sandars

THERE WAS NOT a lot of 'specialised armour' used in the Desert, as the majority of the 'Funnies' were only devised shortly before the assault on North-west Europe. Three vehicles are, however, worthy of note, that do not fit into the normal tank, armoured car, carrier, or scout car categories. The first is the Scorpion Flail tank, locally produced in time for the Battle of Alamein, the second is the AEC Dorchester Armoured Command Vehicle, used throughout the campaign, and the last is the $\frac{3}{4}$ ton armoured truck, better known as the White scout car, which was introduced in mid-1942.

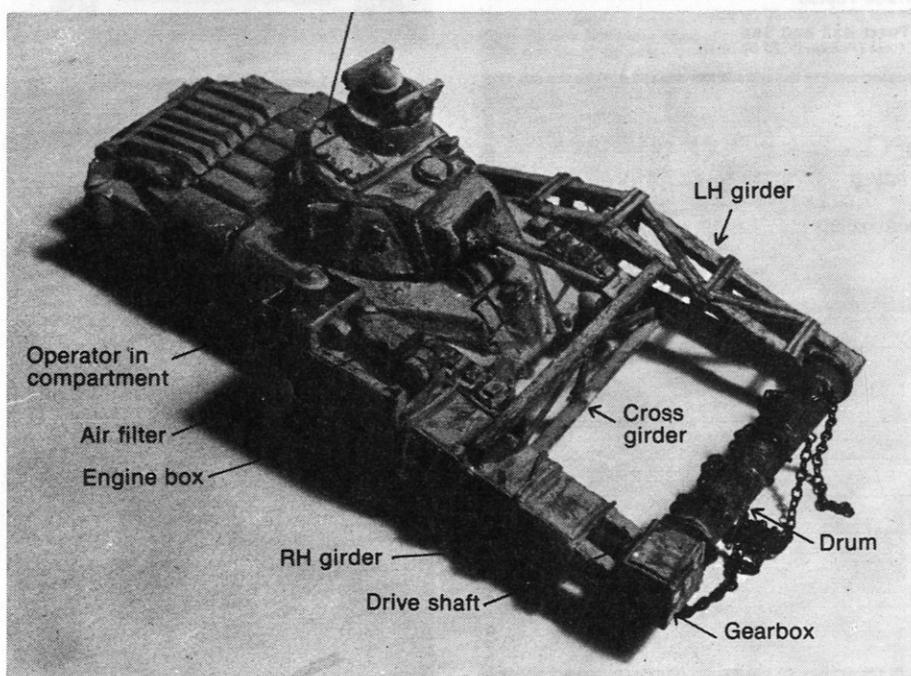
While the Dorchester has to be scratch-built the other two can be to some extent converted from existing kits. The basis for the Scorpion is the Matilda tank, and the Airfix or Fujimi models can be used. (The model shown in the photograph is, in fact, fully scratch-built.)

In the original a pair of metal girders bolted to either side of the tank held a rotating metal drum out in front to which chains were attached to beat the ground and explode mines. This drum was driven, through a right angle gearbox at the end and a drive shaft, by a Ford V8 engine in a metal box bolted to the side of the tank behind the right-hand support girder. In early models the back of this engine box had a position for the operator, but later the 'flail' engine was controlled by rods from inside the tank.

The engine box can be made from a piece of balsa approximately 18 mm long, 8 mm wide and 10 mm deep. The head and shoulders of an Airfix infantryman can be stuck on top at the back, with a 2 mm high



Above Scratch-built Dorchester armoured command vehicle. Note how one front window has been made open and the other shut; also numerous extras added to make the basic vehicle a better model. **Below** Matilda Scorpion minesweeping flail tank showing new parts added to basic kit.



card coaming around him.

In front of this the air filter, which can be obtained from an Airfix Crusader kit and is the bit that sits on the back end of each track guard, is glued.

The two girders can be made up from card as shown, or can be fabricated from wood or plastic rod if preferred. If thick card is used it will probably be best to cut out the parts and glue them together rather than trying to bend them as shown on

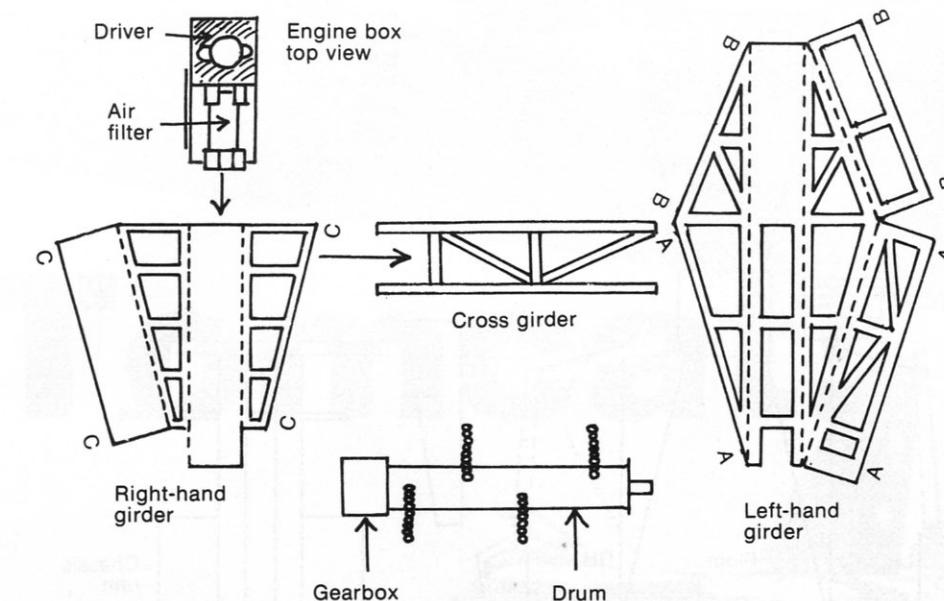


Diagram 1
Scorpion Flail attachment
Approx 1:76 scale

The wheel arches have to be carved out and the hardwood axles, with wheels pinned to the ends, glued below. Small card mudguards go either side at the front, and card doors and vent grilles are fitted at the sides and rear. On the RH side of the vehicle half a dozen 1 mm plastic rods are

glued together horizontally to represent tubes for spare aerial lengths. To overcome end grain problems and give the model a smooth finish it can be covered with paper or card before the doors, hatches, etc, are added. As can be seen from the photograph much else in the way of figures and

kit can be added if you wish.

This method of construction produces a robust but somewhat simplified model, ideal for wargames. Full 1:76 scale plans and instructions for scratch-building a detailed model in plastic card appear in Bruce Quarrie's new book, Airfix Magazine

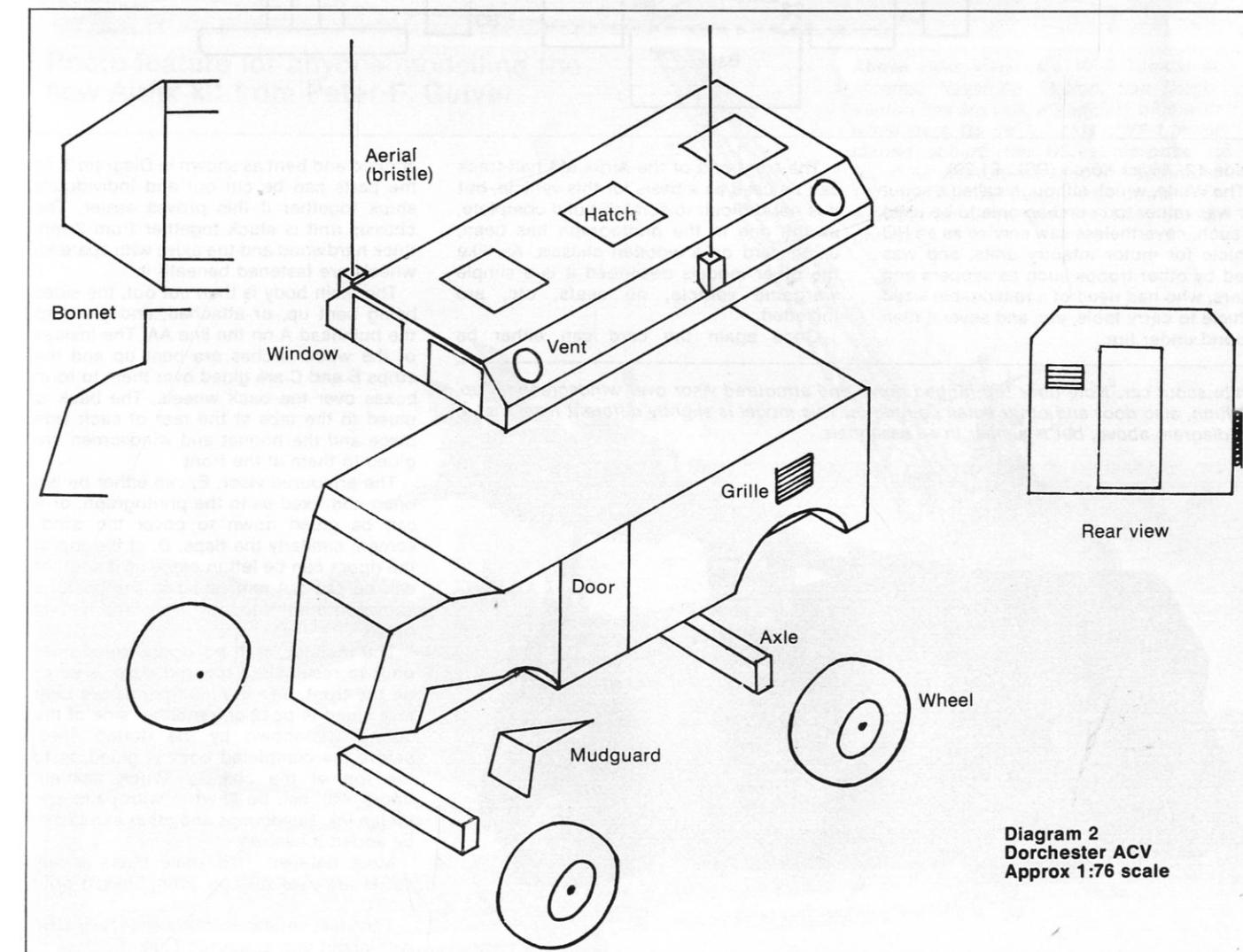
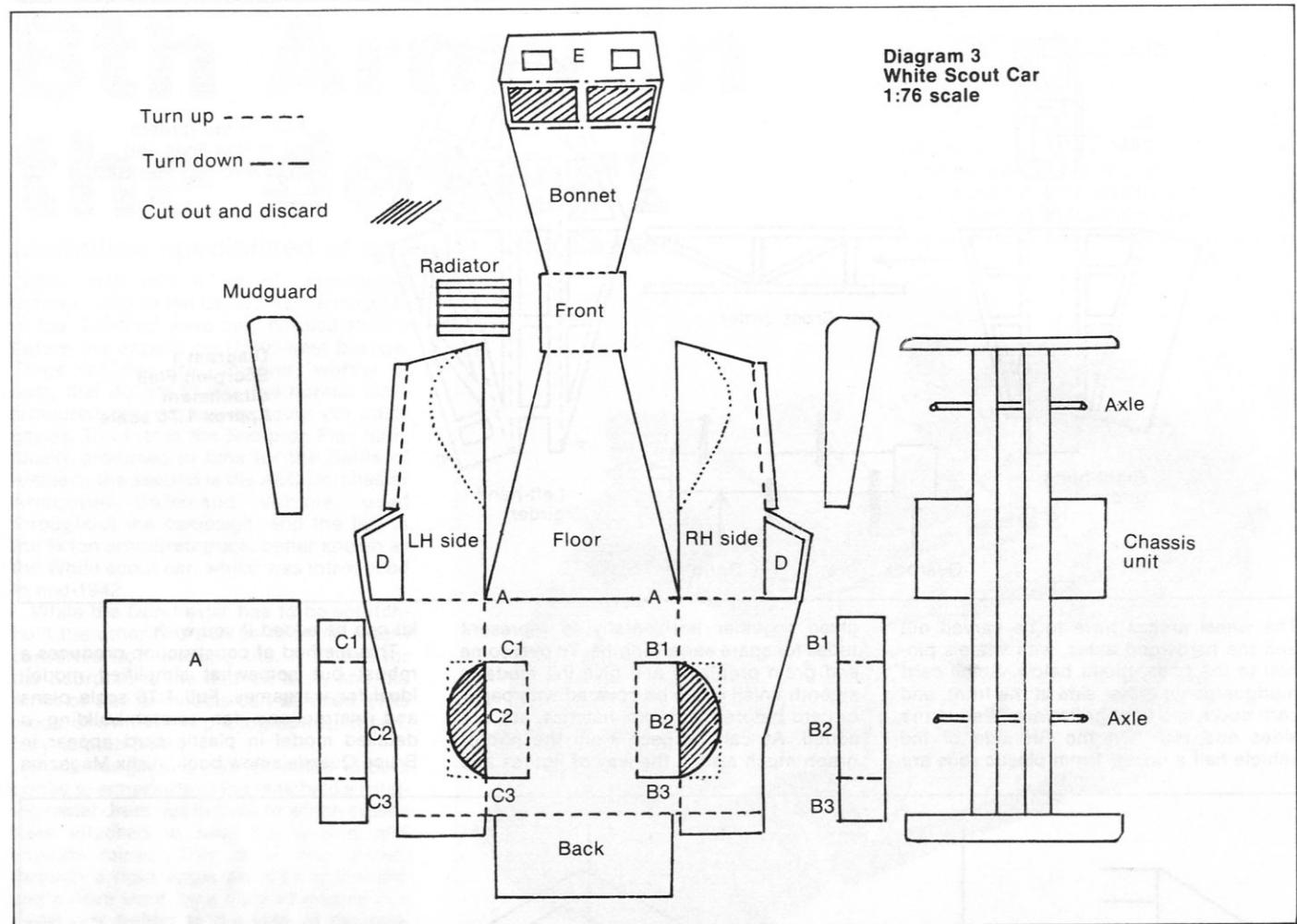


Diagram 2
Dorchester ACV
Approx 1:76 scale



Guide 12: Afrika Korps (PSL, £1.20).

The White, which although called a scout car was rather too cumbersome to be used as such, nevertheless saw service as an HQ vehicle for motor infantry units, and was used by other troops such as sappers and fitters, who had need of a reasonable sized vehicle to carry tools, etc, and several men around under fire.

The front end of the Airfix M3 half-track can be used as a basis for this vehicle, but it is not difficult to scratch-build complete, as the one in the photograph has been, using card on a wooden chassis. As, like the other models described it is a simple wargame vehicle, no seats, etc, are included.

Once again the card can either be

scribed and bent as shown in Diagram 3, or the parts can be cut out and individually stuck together if this proves easier. The chassis unit is stuck together from 2 mm thick hardwood and the axles with spare kit wheels are fastened beneath it.

The main body is then cut out, the sides being bent up, or attached, and glued to the bulkhead A on the line AA. The insides of the wheel arches are bent up and the strips B and C are glued over them to form boxes over the back wheels. The back is glued to the tabs at the rear of each side piece and the bonnet and windscreens are glued to them at the front.

The armoured visor, E, can either be left open and fixed as in the photograph, or it can be glued down to cover the windscreen; similarly the flaps, D, at the top of the doors can be left in place as if shut, or can be cut out and glued in the position shown in the photo, as if open and hinged down.

The radiator, with horizontal ruled lines on it to resemble armoured slats, is stuck on the front, and the mudguards are bent and glued in position on either side of the bonnet as shown by the dotted lines, before the completed body is glued on to the top of the chassis. When painted, doors, etc, can be lined in with paint and Indian ink. Headlamps and other extras can be added if desired.

More detailed 1:76 scale plans of the White are available on John Church print No 70.

The next article in this series will deal with scout and armoured cars.

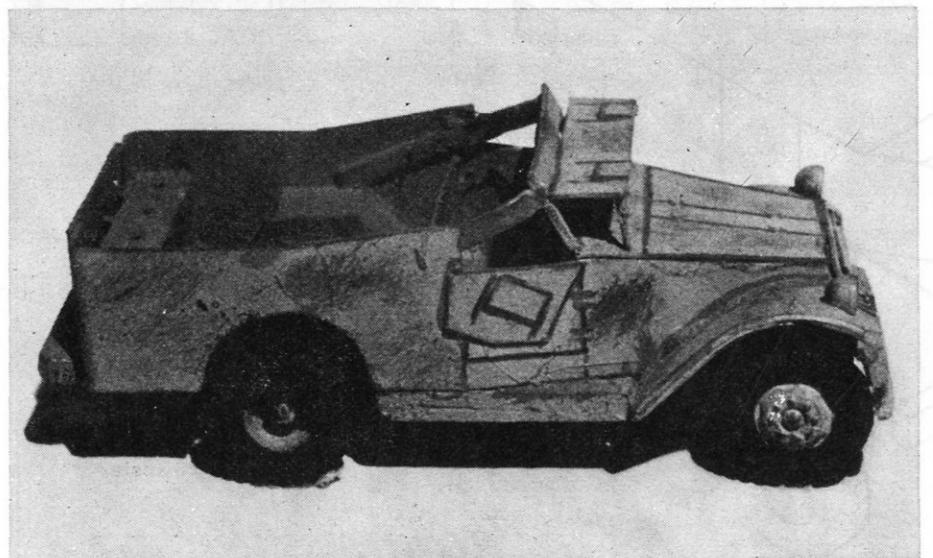
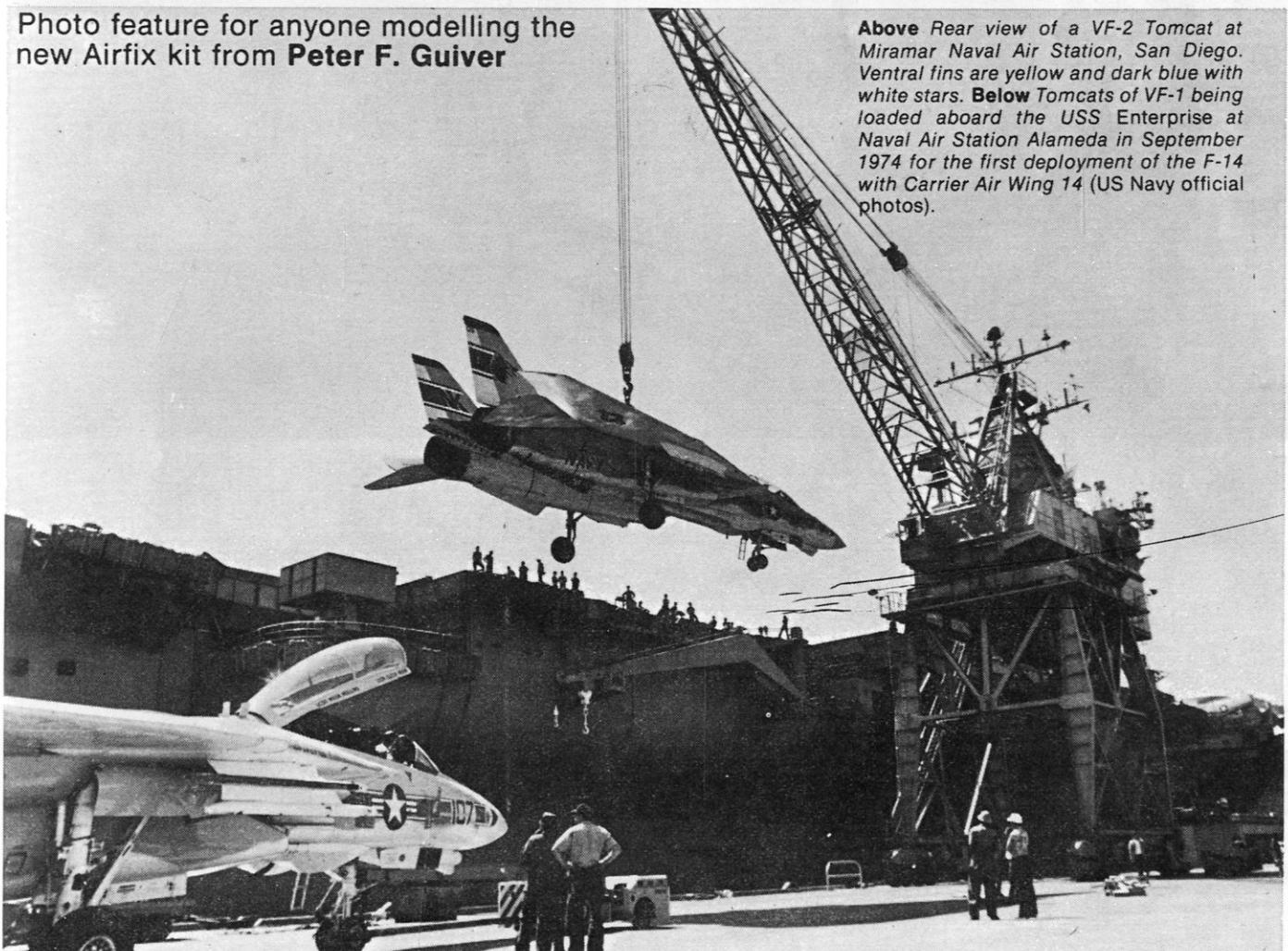
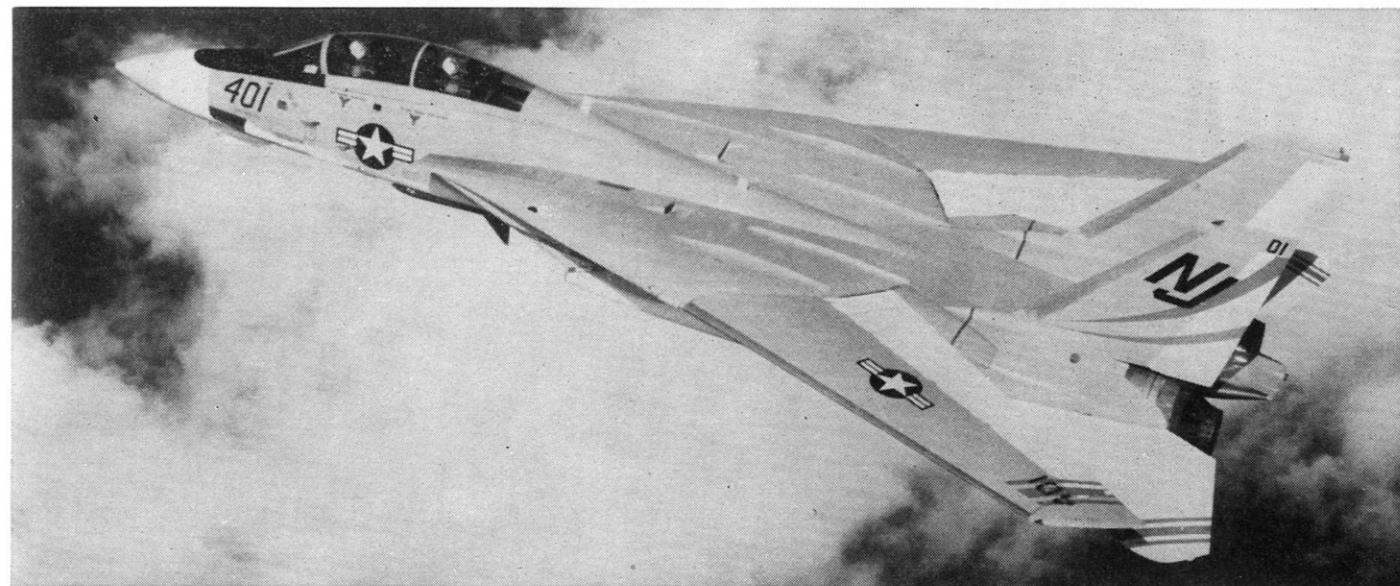
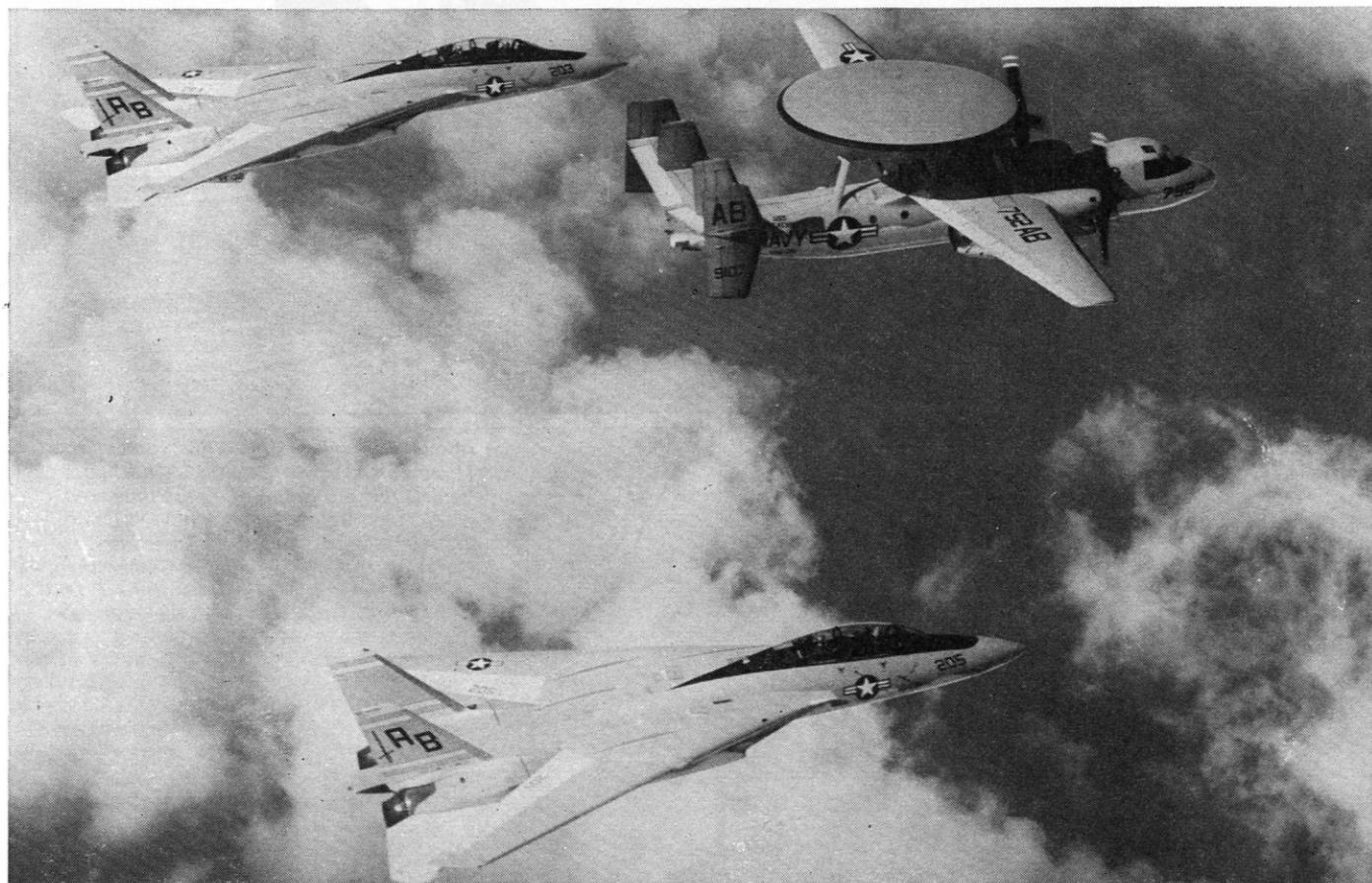
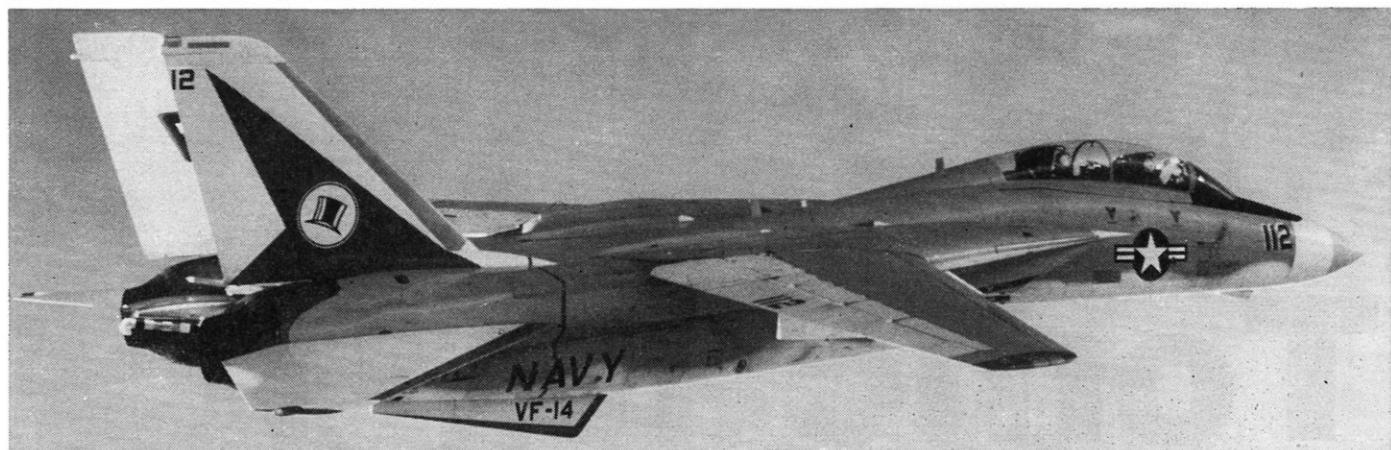


Photo feature for anyone modelling the new Airfix kit from Peter F. Guiver

Above Rear view of a VF-2 Tomcat at Miramar Naval Air Station, San Diego. Ventral fins are yellow and dark blue with white stars. Below Tomcats of VF-1 being loaded aboard the USS Enterprise at Naval Air Station Alameda in September 1974 for the first deployment of the F-14 with Carrier Air Wing 14 (US Navy official photos).





Opposite page, top F-14A of VF-14 from the USS John F. Kennedy in basic light grey and white. Fins are all white with red flashes. Fin badge is a black and white top hat on a white disc with narrow black and white outline. Nose radome is cream (front) and white. Nose code is black with upper left white shadow. Fin code 'AB' (on inner faces) is black with upper left red shadow. Tips of wings and tailplanes are red. Centre Two F-14As of VF-32, also based on the USS John F. Kennedy, in formation with a Grumman E-2C Hawkeye of VAW-125. Both these units form part of Carrier Air Wing One. Bottom Another F-14A from VF-32 in standard light grey and white with yellow horizontal fin bands. Sword and codes are black. This page, above Based at Naval Air Station Miramar with VF-124 is this Tomcat in light grey and white. Radome is cream (front) and white, fin flashes and bands at tips of wings and tailplanes are all red, aerials on fuselage behind cockpits are yellow. All codes are black. Below Tomcats of VF-1 and VF-2 on board the USS Enterprise (all photos US Navy official).





Americans invade Dorset . . .

Terry Gander reports from a recent exercise in the West Country

EXERCISE Triple Jubilee started on August 31 with the arrival of an American Amphibious Task Force at Plymouth. The Task Force included the Amphibious Helicopter Carrier *Guam* and the Landing Ships *USS Ponco*, *Newport*, *Boulder* and *Coranado*. The *Guam*, however, departed for the United States before the exercise was over.

The amphibious part of the exercise started at 0730 on Saturday November 8 when the first of 1,000 United States Marines came ashore. The amphibious landing took place at Arish Moll which is part of the Lulworth tank gunnery ranges in Dorset. The first two waves of Marines were brought in by LVTP7s, or Amtracks for short. The LVTP7 (Landing Vehicle Tracked Personnel) is of all-welded aluminium construction and is powered in the water by two water jets in the rear of the

hull, ie one each side, which give it a top speed in the water of 13.5 km/hr. Its top road speed is 64 km/hr, and it has a crew of three (commander, driver and gunner) and can carry 25 fully-equipped Marines. Other members of this family include the LVTC7 (Command) and the LVTR7 (Recovery) vehicles.

The first waves were to have had close air support by Harriers of the Royal Air Force flying from the Commando Carrier *HMS Bulwark*. An event in Belize (Central America) meant that the RAF had to fly six Harriers out there which left none for the landing.

The next waves consisted of landing craft which brought additional Marines and some of their vehicles. The first vehicles ashore were two bulldozers which were used to clear a path across the beach, an

all terrain tractor with a rolled up length of glass fibre roadway, and an excavating crane. The bulldozers were hard at work all day, not only clearing obstacles but also towing bogged-down vehicles off of the beach.

Among the many interesting vehicles brought ashore by the landing craft (LCUs) were M274 Mechanical Mules. These small vehicles were being used both as load carriers and as anti-tank vehicles armed with a 106 mm M40 Recoilless Rifle.

The 6x6 M561 Gama Goats were about the only vehicles which, apart from the tracked vehicles, were able to leave the beach without assistance. M151s were around in some numbers including some of the ambulance models which are known as the M718. Normal 6x6 M35 2½ ton trucks, most of which towed a small trailer, brought essential supplies ashore.

The landing was controlled from afloat, but Beachmaster Unit Two had a M142 4x4 truck on the beach with communications equipment installed. The M142 is essentially a standard M705 with a shelter mounted in the rear. Two LARC-5 (Lighter Amphibious Resupply 5 Ton) also came ashore in the early stages. These have a hull of aluminium and are powered in the water by a single propeller under the hull.



Top of page M35 6x6 truck coming ashore. Left One of the LVTP-7s. Right A pontoon approaching the shore.



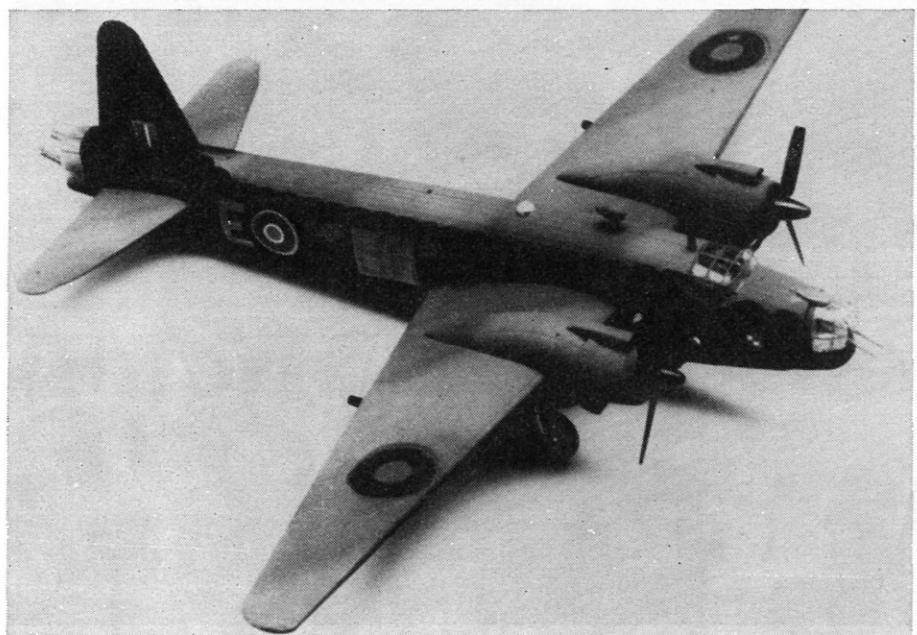
M142 radio communication vehicle.



Above LARC-5 of Beachmaster Unit 2. Below top Roadway being prepared for laying. Below centre M274 mechanical mule with 106 mm recoilless rifle.



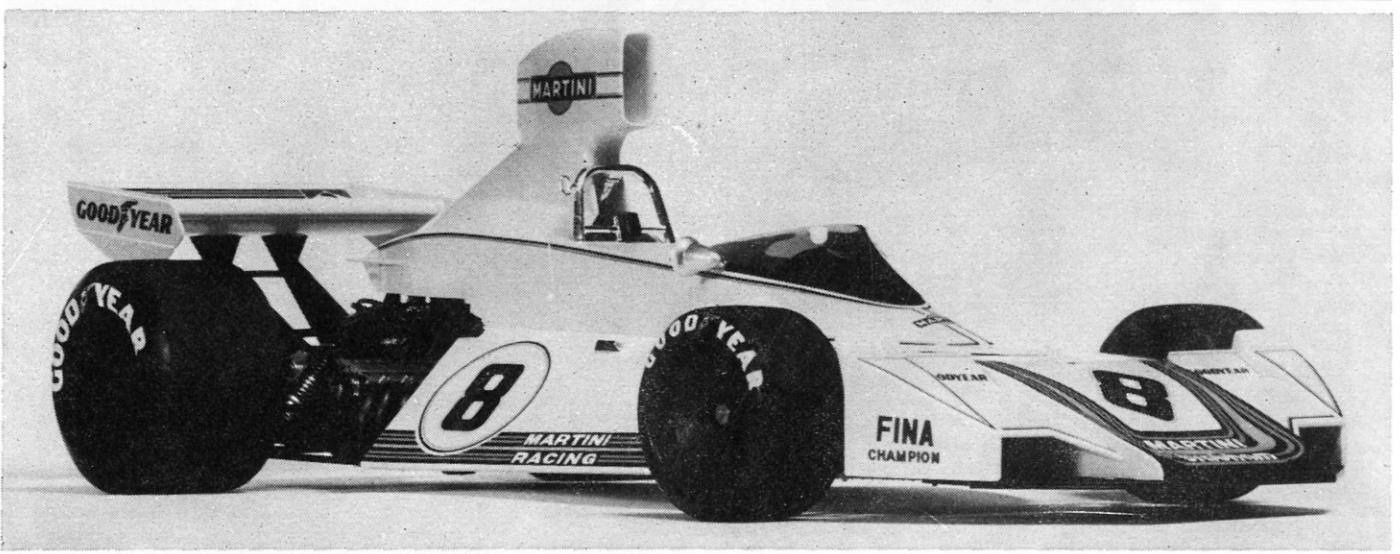
NEW KITS AND MODELS



Above New from GHQ, who are probably best known for their range of superbly detailed 1:285 scale AFVs, is a range of 25 mm Seven Years' War figures. Both mounted and foot figures are available, and all have separate heads, and, in the case of the infantry, muskets as well. An indication of the fine casting quality of these figures is visible in the photo of a Prussian cuirassier.

Left New from Matchbox in 1:72 scale is this Wellington which we shall be reviewing in more depth next month.

Right Another recent Matchbox release, also in 1:72 scale, is an excellent He 111, which we shall also be reviewing at a later date. **Below** Latest 1:12 scale racing car release from the Tamiya stable is the Martini Brabham BT44B. Although definitely not a beginner's kit, this model well repays careful assembly as our photo shows. Price is £6.99.



MODEL TOYS

PLASTIC KIT SPECIALISTS

ASSOCIATE MEMBER I.P.M.S.

ESCI AFV KITS		SUPERMODEL A/C KITS		ITALAERAI A/C KITS		CONTRAIL (SUTCLIFFE) VACFORMS A/C	
PzKpfw 111 Ausf M	1/72 60p	4. M3 Lee Mk. I	1/72 40p	Maschi MC 202	1/72 65p	Lavochkin LA-5FN	1/72 55p
Sd. Kfz 251/1 Hanomag	1/72 60p	5. M3 Grant Mk. I	1/72 40p	Mack MC 205	1/72 65p	Reggiane RE 2002	1/72 59p
PzKpfw II Ausf F	1/72 60p	6. M3A1 H. Track	1/72 40p	Reggiane RE 2000	1/72 65p	Heinkel HS-126	1/72 80p
PzKpfw VI King Tiger	1/72 60p	7. M4A1 H. Track	1/72 40p	Reggiane RE-2001	1/72 65p	RF-84F Thunderstreak	1/72 90p
PzKpfw IV Ausf H	1/72 60p	8. Tiger I.E.	1/72 40p	Reggiane RE-2002	1/72 65p	F-84F Thunderstreak	1/72 90p
PzKpfw V Panther	1/72 60p	9. Panther G.	1/72 40p	Fiat G.55F Silurante	1/72 65p	Fiat BR.20 Cicogna	1/72 95p
PzJG V JAGD Panther	1/72 60p	10. 88 mm Flak 18	1/72 40p	Fiat CR.32	1/72 65p	Caproni CA 313/314	1/72 95p
M4A1 Sherman	1/72 60p	11. Sd. Kfz 7 H. Track	1/72 40p	S.M.81 Pipistrello	1/72 £1.95	Jungers Ju-188	1/72 £1.65
M-12 Gun Carriage	1/72 60p	12. Kubelwagen and BMW Combination	1/72 40p	Cant Z1007 Single Fin	1/72 £1.95	Caproni CA/311	1/72 £1.65
Wespe	1/72 60p	13. Schwimmwagen and Kettenkrad	1/72 40p	Cant Z.501 Twin Fin	1/72 £1.95	Junkers Ju-86 D-1	1/72 £1.65
Hummel	1/72 60p	14. Sd. Kfz 7/1 with 4AA	1/72 40p	Henschel Hs-125	1/72 65p	Cant Z.501 F. Boat	1/72 £1.80
Hetzer	1/72 60p	15. M-4 (A38) Sherman	1/72 40p	RF-84F Thunderstreak	1/72 65p	Gotha Go. 242/244	1/72 £1.80
Marder III	1/72 60p	16. TX-40 Fuel Truck	1/72 40p	F-84 Thunderstreak	1/72 65p	TSR 2	1/72 £1.35
PzKpfw III N/M	1/72 60p	17. Toyota Starter Truck	1/72 40p	F-84 Thunderstreak	1/72 65p	Fairey Hendon	1/72 £1.40
Sd. Kfz. II H. Track	1/72 60p	18. Sd. Kfz. 7/2 37 mm AA	1/72 40p	F-84 Thunderstreak	1/72 65p	H.P. Harrow	1/72 £1.30
Opel Ambulance	1/72 60p	19. M-24 Chaffee	1/72 40p	F-84 Thunderstreak	1/72 65p	H.P. Heyford	1/72 £1.30
PAK 40, PAK 35/36	1/72 60p	20. G.M.C. Personnel C.	1/72 40p	F-84 Thunderstreak	1/72 65p	Bristol Bomby	1/72 £1.30
A.A. Flak 88	1/72 60p	21. G.M.C. Gas Truck	1/72 40p	F-84 Thunderstreak	1/72 65p	T.2	1/72 £1.30
Jagdpanzer IV	1/72 60p	22. G.M.C. Dump Truck	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Elephant	1/72 60p	23. M1 Tractor	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
3 Ton Opel Blitz	1/72 60p	24. Daimler II A. Car	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Sd. Kfz. 251/1 Rocket Launcher	1/72 60p	25. Humber II A. Car	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Pz.JG. VI Jagdtiger	1/72 60p	Pz Artillery Regt.	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Sturmgeschutz III Ausf. G	1/72 60p	"Großdeutschland"	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Afrika Korps Figs.	21 pieces	Italian Paras.	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
8th Army Figs. 18 plus	1/72 60p	Pak 40 Gun	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Field Gun	1/72 60p	76.2 M.42 Gun	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
U.S. Marines Figs.	1/72 60p	PzKpfw 38(t)	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
22 plus S. Arms	1/72 60p	Hetzer 38T	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Russian Figs.	1/72 60p	Marder III	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
26 plus S. Arms	1/72 60p	Fiat Ansaldo M13/40	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
FUJIMI AFV KITS	T-34/76A	Fiat Ansaldo M40	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Valentine	1/72 65p	Popl Blitz	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
M4A3 Sherman	1/72 65p	Horch KFZ 15	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
PzKpfw IV FV-2-G	1/72 65p	Elephant	1/72 40p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
88 mm Gun and Crew	1/72 65p	Humber II A. Car	1/72 30p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Matilda III	1/72 65p	Puma A. Car	1/72 30p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Tiger II	1/72 65p	Jagdpanther	1/72 30p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Russian KV-11	1/72 65p	M. 16. U.S. H. Track	1/72 30p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Jagd Panzer Hetzer	1/72 65p	Comet Mk. I	1/72 30p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Russian KV-IA	1/72 65p	Wespe	1/72 30p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Jagdtiger	1/72 65p	Panzer III Ausf. L	1/72 30p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
251/10 Hanomag	1/72 65p	Sherman Firefly	1/72 30p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Sd. Kfz. 222 A. Car	1/72 65p	Panther Ausf. E	1/72 30p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Chi-ha (Advanced)	1/72 65p	Chaffee	1/72 30p	F-84 Thunderstreak	1/72 65p	F-84 Thunderstreak	1/72 65p
Jap Type I	1/72 65p	NITTO AFV KITS	1/72 49p	Mitsubishi MU-2S	1/72 77p	Mitsubishi MU-2S	1/72 77p
SU-85	1/72 65p	Panther G	1/72 49p	F-15 Eagle	1/72 77p	Mitsubishi MU-2S	1/72 77p
T-34/85	1/72 65p	Tiger I	1/72 49p	G.6A Intruder	1/72 77p	Mitsubishi MU-2S	1/72 77p
Kubelwagen and BMW	1/72 65p	R75 Combination	1/72 49p	F-4 Phantom	1/72 77p	Mitsubishi MU-2S	1/72 77p
Elephant	1/72 65p	Sd. Kfz. 250/10	1/72 49p	F-104 Starfighter	1/72 77p	Mitsubishi MU-2S	1/72 77p
Tents, Oil Drums, Walls, Sandbags	1/72 65p	Jagdpanther	1/72 49p	F-105 Delta Dart	1/72 77p	Mitsubishi MU-2S	1/72 77p
1. Willys Jeep	1/72 40p	RAF Hunter F.6, 14 Sqn.	1/72 49p	F-106 Delta Dart	1/72 77p	Mitsubishi MU-2S	1/72 77p
2. 155 mm M.2 Gun	1/72 40p	Phantom F.6, 14 Sqn.	1/72 49p	Dornier 335 A-6/A-12	1/72 77p	Mitsubishi MU-2S	1/72 77p
3. Stuart Mk. I	1/72 40p	Kubelwagen/BMW	1/72 49p	Dornier 335 A-6/A-12	1/72 77p	Mitsubishi MU-2S	1/72 77p
HASEGAWA AFV KITS	1. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	2. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	3. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	4. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	5. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	6. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	7. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.
MODAT VACFORMS	1. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	2. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	3. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	4. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	5. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	6. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.	7. F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn. RAF Sabre 6, 430 Sqn. RCAF and alternative RCAF Sabre emblems.
MANI A/C KITS	1. M. K-51 Sonia G. A. vers 1	2. M. K-51 Sonia Rec. vers 1	3. N. B. 55N Kite	4. N. B. 55			

NEWS FOR WARGAMERS

An Introduction to Wargaming, by John Sandars, Pelham Books Ltd, 52 Bedford Square, London WC1B 3EF. Price £4.95.

AMONG THE MANY 'beginners' books on wargaming available today, this new one from John Sandars must rank as one of the most interesting despite the fact that, for all its general title, it is essentially concerned with the Western Desert battles of World War 2.

Much of the introductory material on the history of wargaming, setting up wargames tables and devising basic ground scales, movement rates, etc, will be 'old hat' to experienced players; it is when John gets down to brass tacks and starts talking specifically about 'his' theatre of operations that the book really gets interesting.

Essentially, what he propounds in this book is a set of wargames rules and playing equipment which are time consuming to prepare, but time saving in an actual wargames situation. He places great reliance on 'slide rule' type calculators, fire sticks and shell burst circles, and marking pins, counters and chips, which have the advantage of making everything readily visible when you want it, but the disadvantages of littering the wargames table with dozens of little coloured counters and the lack of any permanent move-by-move record of the game — which many wargamers like to keep and, indeed, in a campaign have to keep. We tend to prefer simpler game equipment even at the cost of having sometimes to make quite lengthy calculations from fire and combat effect tables, and at the bother of keeping written orders and casualty records, but freely admit this is purely a matter of personal choice, and John's system, which is certainly colourful, may well appeal to you.

The book is certainly well and clearly written, with individual sections on surprise, visibility and concealment, artillery and small arms fire, melees, casualties, morale, communications, logistics, breakdowns, attrition, weather, obstacles and field engineering, to name a few. Numerous diagrams in the text help explain how the author's systems work, but unfortunately only give examples rather than setting out all the relevant factors for the various types of vehicle and weapon used.

Although John is principally concerned with Western Desert operations, and gives two sample games showing how the rules work, there are notes and pointers to other periods and theatres which slightly broaden the book's appeal. Basically, though, unless you are interested in World War 2, or are prepared to devote some time to adapting the playing suggestions for other periods, this book cannot really be recommended.

World War 1

WORLD WAR 1 is a strategic simulation of

the 1914-18 war in Europe issued by Simulation Publications Inc with *Strategy and Tactics* magazine No 51 (it can also be purchased separately from the magazine in the new 'folio' format). First appearances are uninspiring; the 17 x 22 inch map which constitutes the playing surface is the first of its kind to appear as part of SPI's forced economies. The material quality is, as expected, lower than in the past, but the intellectual quality, if that is not being too pretentious, shows the usual high standard we have come to expect of current simulation wargaming.

Perhaps it should be made clear at this point that the above mentioned economies apply only to the 'free' games issued with *Strategy and Tactics* and that the normal, boxed games produced by SPI are not only maintaining but improving their material quality.

It is to SPI's credit that they have succeeded in making this simple game reflect the strategic conditions of the Great War with such uncanny accuracy. It is a real challenge to find alternatives to the historical decisions embodied in that struggle and to deliver the master stroke that would have altered the course of the war. This is surely what historical simulations are all about.

In *World War 1*, each of the die-cut, cardboard counters represent an army-sized unit which can be manoeuvred about a map covering an area stretching from France to European Russia and from the Baltic to the Mediterranean. Rail and sea movement and supply are catered for in simplified form.

More attention is given to combat and economic resources, which are the key to the game. Combat losses are accounted for by a loss of resources and/or territory or, in limited circumstances, in army units or destruction of fortifications, both of which can be rebuilt. In deference to the peculiar conditions of the time, an attacking force usually suffers more heavily than the defending one, sometimes appallingly. The Eastern Front is particularly nasty for the Russians, while an all-out assault on the Western Front by either side will make the players think twice before trying it again!

One minor reservation we have is that the rules specifically permit the reconstruction of the British Expeditionary Force if lost, a more powerful force (defensively) than the British units which come after. Purists, however, can always opt to disallow this. In fact, the game easily lends itself to such modifications by players who have a better acquaintance with the period than the average wargamer.

The stagnation and sheer bloodiness of the Great War are aspects with which we are all familiar. The incompetence of the leaders on both sides is a fallacy which period articles and hindsight induced us to believe. The reality was surely much differ-

ent. *World War 1 and Strategy and Tactics* magazine are available through Simulation Publications UK, Elmfield Road, Morley, Leeds LS27 0NN. Price £5.50.

THIS, MR WESENCRRAFT'S second wargaming book, is subtitled '16th and 17th Century battles for the wargamer', but is in practice limited to primarily English campaigns — the Irish Wars of Elizabeth's reign and the English Civil Wars of the 17th Century for the most part, though Pinkie and Nieuport also find their way in, the latter presumably because of the considerable number of English troops involved.

The first and shortest section of the book covers the historical background — weapons and their use, and the composition of armies. In general this is a sound, simply-written exposition, though unlikely to give any new information to anyone who has done his own reading on the period, but it does contain one or two dubious statements — for example, that the sword and buckler broke the power of the Swiss pikes, or that it was 'the weapon that finally destroyed the pike in Europe' is entirely untrue.

The middle section, rather longer, deals with the practical questions involved in setting up wargames armies and suitable terrain, and then presents, with full and clear explanation, a set of rules for the period. These are a simple set — simplicity, as the author points out, being a considerable virtue in such matters — and they deal very neatly and sensibly with the basic questions of firing and hand-to-hand fighting (though the total omission of any effects for armour seems, in this historical period, rather odd; the poor old heavy cavalry cuirassier moves much slower than his lighter counterparts, but appears to get no countervailing advantage whatever from his heavy protection, not even against a sword!). The giving of a variable 'efficiency rating' to each unit is an excellent idea.

Mr Wesencraft favours the currently unfashionable system of sides moving alternately, both firing after each has moved, and he makes an able defence of this method, pointing out some very real drawbacks of other systems, but, particularly as a dice throw decides which side moves first each time, it can lead to some rather odd results.

Another questionable feature is the mounting of infantry and cavalry figures on bases of identical frontage, and the reviewer personally prefers to stick cavalry figures firmly to their horses rather than keeping them removable as is necessary under these rules. In general, however, these look like a set which have been properly tried, and which would particularly suit beginners, or a very large battle in which the number of troops and units involved precludes the use of more elaborate rules.

The last section, more than half of the book, consists of 37 battles of the period for 're-fighting' (two with the Scots, three from the Irish wars, Nieuport, and the rest from the English Civil Wars). Each comprises a simple plan of the battle as a wargame, a brief account, with numbers and names of leaders involved, any special rules needed, and a list of wargames fig-

ures required, usually at a ratio of one figure to 50 or 100 actual men. These are well worked out, and provide a wide choice of interesting wargames situations, which is their intention; they are not sufficiently in-depth to allow a very close simulation of history or the drawing of military-historical lessons or insights.

Overall, there is a good deal to commend this book to the beginner in wargaming, who is presumably its intended audience, but it has relatively little to offer those more experienced, either in wargaming generally or this period in particular. A pity, then, that the impact of inflation in the publishing world has pushed its price to £5.50, out of reach of many of its likely readers. A good buy for a school library, perhaps?

Readers interested in the pike and shot period, whether wargamers or not, will find more 'meat' in George Gush's new book, *Renaissance Armies 1480-1650*, reviewed here in November.

Lee Vs Meade

THE FIRST THREE days of July 1863 ended all hope of a victorious end to the American Civil War for the Confederate States when their Army of Northern Virginia, under General Robert E. Lee, was defeated by the Union commander, Major General George Meade, and his Army of the Potomac at Gettysburg. One third of the forces engaged became casualties.

Gettysburg has been the subject of many board games with Avalon Hill's game of the same name probably being the first available in the UK. The most recent one is SPI's 'Cemetery Hill' and just before that Rand Games produced their version, 'Lee Vs Meade'. All three can be obtained through Simulations Publications UK.

'Lee Vs Meade' is a sort of hybrid between games of the 'Campaign' and 'Risk' types and true conflict simulations, which can be very complex. The rules are few and simple with the exception of those governing actual combat between units. Here the makers have had a field day by devising charts that enable the players to select tactical formations for combat. The attacking player can select one of six attack options and the defender has a similar choice of defence options. The reviewer first came across this idea in Avalon Hill's '1776' but Rand Games have gone further with their system.

They have used another clever idea to regulate movement of the pieces. The playing surface is a map of the battle area divided up into squares with each side and corner of every square displaying a number, this being the cost of moving a unit from one square to the next. The system is intended to allow for variation in terrain while permitting movement to be fast and simple, but it does give rise to some anomalies which may be irritating to the purist.

The entire three day battle can be fought out, or selected highlights if time is restricted. Instructions for setting up each of the scenarios are given, together with the conditions of victory.

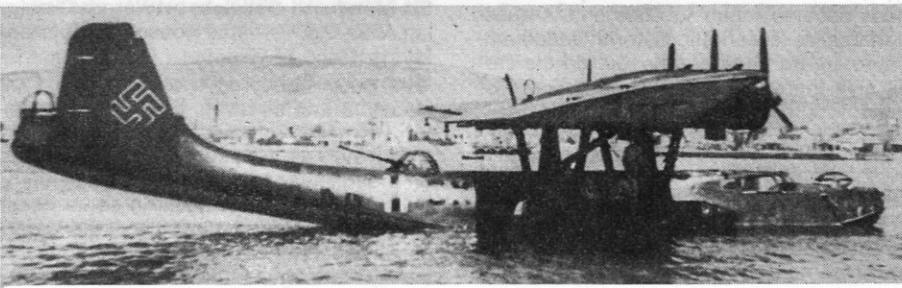
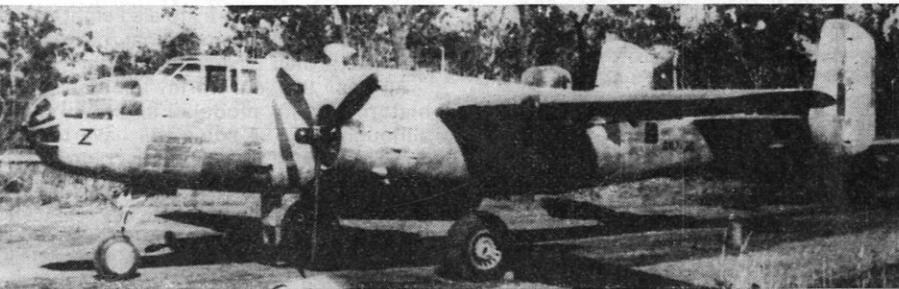
To sum up, 'Lee Vs Meade' is a well-made, fast-moving game ideal for newcomers to the field of conflict simulations. It is available, price £4.45 (plus postage), from Simulations Publications UK, Crown Passages, Hale, Altrincham, Cheshire, WA15 9SP.

PHOTO PAGE

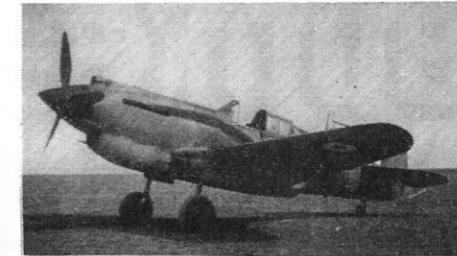
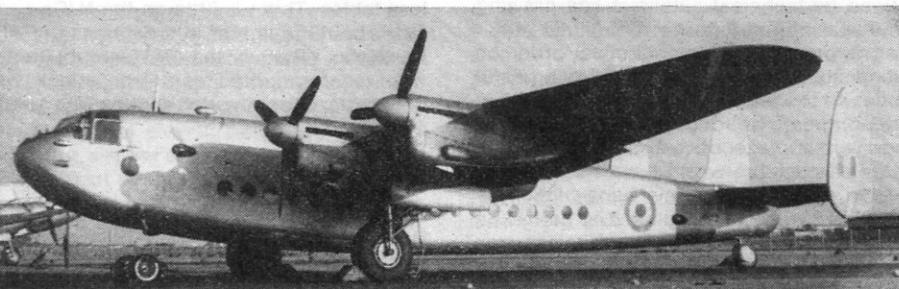
Return of our popular feature by Michael Bowyer



Above A pile-up of three BEs at London Colney, date unknown (R. S. Humphreys). Below B-25D hybrid of No 2 Squadron RAAF at Hughes Field in 1944. Aircraft is 'Z', A47-36, ex-42-87255 (Frank Smith).



Above Dornier Do 24, possibly K.K. 3K of Minensuchgruppe der LW. The background suggests a Mediterranean setting, and possibly the customary rear fuselage band has been overpainted. The fin serial is unreadable (Alejandro Dycueco). Below Avro York MW172 at Fayid on January 19 1955 (P. Clifton).



Kittyhawk of an unknown squadron photographed in North Africa in 1943 (M. J. Allen).

BOOKS FOR MODELLERS

Aircraft

Clouds of Fear, by Roger Hall. Bailey Bros & Swinfen Ltd, Warner House, Folkestone, Kent. Price £2.95.

IN RECENT MONTHS there has been a trend to re-issue some of the books that were written and published during World War 2, and the reader would be forgiven for thinking that *Clouds of Fear* is such a reprint. In fact this is a new publication based on the wartime diaries of fighter pilot Roger Hall, who transferred from the Army to the RAF, fought during the Battle of Britain; then as a night fighter pilot, and back to day fighters until September 1942. In his introduction the editor — who hides behind the initials JB — freely admits that he has had to severely reduce the original text, and sadly this becomes very apparent.

The style comes over as very forced and in many cases would be more at home in a 'Biggles' type novel than a serious work. There is no doubting the author's sincerity and much of the blame for the poor presentation of his work must fall fairly and squarely on the shoulders of the editor.

The publishers claim that this book will rank alongside such classics as Hilary's *Last Enemy* and Brickhill's *Reach for the Sky*, is a sweeping statement that just does not hold water.

If you like such dialogue as 'Hallo Mandrake — Hallo Mandrake' Cocky called up. 'Maida Red one calling Bandit destroyed — Red two lost also — over.', the irritating use of pilot's nicknames, very few references to actual squadrons by number or aircraft type, then this is the book for you. But it does become rather juvenile and is questionable as a serious historic document. There are no photographs, but on the credit side there is an interesting account of Defiant night operations.

Jane's Pocket Book 6: Light Aircraft, edited by John W. R. Taylor. Macdonald and Jane's, Paulton House, 8 Shepherdess Walk, London N1 7LW. Price £2.25.

THE NAMES Jane's and Macdonald are synonymous with quality and at £2.25 this 7½ in x 4½ in soft-bound book keeps up a deserved reputation.

If light aircraft are your particular forte then this is the book for you. Each subject is treated to a full-page photograph followed by technical details, a line drawing and year of first flight.

It is presented in alphabetical order on good quality paper and includes a useful index in the rear.

Biplanes, helicopters, twins, crop-sprayers and executive aircraft from countries all over the world have been placed within the covers of this handy little volume's 255 pages. Reading it is certain to bring a touch of sadness as it is a true reflection of how this country's fortunes in this particular field of aviation have

declined since the pre-war heydays. But if you want a quick easy reference and a guide to the many light aircraft that now daily criss-cross our skies, you could do better than invest in this book.

RAF Bomber Command and its aircraft 1936-1940, by James Goulding and Philip Moyes. Ian Allan Ltd, Terminal House, Shepperton, Middx. Price £5.95.

THIS IS A lavish publication in the now familiar style of Ian Allan in which authors James Goulding and Philip Moyes set out to tell the stories behind Bomber Command and the aircraft used by it.

The text is enjoyable and reveals many interesting facts about the re-equipping of the Command prior to the outbreak of World War 2 as well as the first two years of the war. Modellers will particularly like the considerable number of close-up detail shots that will help in their efforts to improve kits of the aircraft dealt with. There are also a large number of general photographs, some that many will have seen before but others that are completely new.

Line drawings — to no particular scale — are included and there are also eight pages of full colour drawings that have been nicely executed by James Goulding.

All in all this is a worthy addition to the historian and modeller's book shelf, although at £5.95 some will have to take several looks before taking the plunge. It is presumed that the story will continue through other volumes so the end result will be well-worth having as it will present a useful and handy reference source for all bomber enthusiasts.

Six Months to Oblivion, by Werner Gerbig. Ian Allan Ltd, Terminal House, Shepperton, Middx. Price £4.25.

THIS BOOK concerns itself with the final stages in the fall of the Luftwaffe's fighter force. It takes as its focal point 'operation Baseplate', the assault by German fighters on the Allied Tactical Air Force on January 1 1945 with which it deals in some detail showing the parts played by the Jagdgeschwader involved. Apart from this it mainly catalogues the German interceptions of main US daylight attacks on Germany.

It is full of detail, which does not make for easy reading. There are useful listings of Orders of Battle and some interesting loss tables. There is little on the NJGs and little about the fighter interceptions of RAF bombers. Whether the RAF's night raids were ever mounted as terror attacks is debatable, certainly such an idea was never mooted in briefing.

Military

The Zulu War, by David Clammer. Pan Books Ltd, 33 Tothill Street, London SW1. Price 60p.

USING FIRST hand accounts, the author has

produced a battle by battle account of the war with all its problems. Isandlwana, Rorke's Drift, Kambula, Ulundi, and other lesser known battles and combats, they are all here. The text is backed up by 12 maps, eight contemporary photos and prints, and appendices on unit strengths and casualties.

Uniforms of the American Civil War, by Philip Haythornthwaite, illustrated by Michael Chappell. Blandford Press Ltd, 167 High Holborn, London WC1V 6PH. Price £2.50.

THIS BOOK IS up to the usual high quality of the Blandford Colour Series and has the immaculate text to be expected from Philip Haythornthwaite. However, it is in no way restricted to uniforms as the title and its predecessors in the series suggest.

In fact it includes short but comprehensive articles on the historical background of the war, casualty figures, organisation, rank markings, belt-plates and buttons, corps badges, artillery pieces, rockets, grenades, machine-guns, firearms, edged weapons, orders of battle for Gettysburg, and a full list of sources.

In the excellent plates by Michael Chappell 154 uniforms are illustrated, and it is a relief to see dress and decorative militia uniforms are kept to the right proportion.

With this title Blandford appear to be extending the scope of their books, and this one will certainly be invaluable as an introduction to the ACW for the modeller, uniform student, and particularly for the wargamer, listing as it does all the data that is needed for organising an army, painting it, and drawing up rules.

Leipzig, by Per-Eric Jansson. Almark Publishing Co Ltd, 49 Malden Way, New Malden, Surrey KT3 EA. Price £1.50.

SCHWARZENBERG'S mission to bring three main armies in a co-ordinated operation towards a common goal was, as Mr Jansson says in this new book on the 'Battle of the Nations', difficult in the extreme. The constant interaction of politics and military operations was disadvantageous, the communications a constant problem. Perhaps the entire venture was an impossibility against a soldier of Napoleon's calibre? The general idea was, at all times, to avoid a battle with the Master himself but, if it should become necessary, only in a defensive position. Not until October 15, in the orders for the following day, was a decisive battle foreseen, albeit in a hazy form which made the dispositions far too weak at the vital points. Leipzig was a great battle, Napoleon was thoroughly beaten in the field and Germany freed from his troops, but it took another six months to finish him off.

Leipzig has not got the fascination of Waterloo for English readers, but is popular with wargamers for the challenge it presents the French player, so this new paperback will probably have a ready following. Being only 48 pages long, it is necessarily a 'potted' account, but well reasoned nevertheless. Our main criticisms are the lack of any detailed maps, and the quality of the 16 pages of colour artwork by Victor Ambrus — which are full of character but too 'arty' and lacking in detail to provide the requisite uniform information.



The Franco-Prussian War 1870, by Robin May and G. A. Embleton. Almark Publishing Co Ltd, 49 Malden Way, New Malden, Surrey KT3 EA. Price £2.

ON JULY 15 1870. Louis Napoleon, emperor of France, declared war on Bismarck's Prussia — an event which had been stage-managed by Bismarck to further his aim of unifying Germany. The French, of course, badly organised, led and equipped, fared disastrously: it was almost like facing a Napoleonic army against one from 1914-18. And in this lies its fascination.

This well-written and illustrated book, which includes several pen and wash colour illustrations by Gerry Embleton, is a concise but useful guide to one of the most important but neglected wars of the 19th Century, and will be of especial value to schools as well as to wargamers, military modellers and historians. The many contemporary prints and engravings are particularly useful and attractive.

Ships

Ocean Ships, by Bert Moody. Ian Allan Ltd, Terminal House, Shepperton, Middx. Price £2.75.

THIS IS THE latest edition of the volume which lists in handy form ocean-going ships of the world. A new feature is the section devoted to cruise ships not listed in the main fleet sections. A third section deals with tankers.

The 300 photographs show just how much the appearance of ocean ships has been transformed by the bulk carrier and container ship. Gone are some of the most famous names of yesteryear. The practice of renaming ships is not overlooked, former names being listed where applicable.

A very useful volume to have at hand if you are in the habit of sailing or just enjoy looking at ships.

Cars

Cross-Country Cars from 1945, compiled by the Olyslager Organisation. Frederick Warne & Co Ltd, 40 Bedford Square, London WC1B 3HE. Price £2.95.

AS THE OWNER of an ex-Army Land-Rover for some seven years, I welcomed the arrival of the latest book in the well-known Olyslager Auto Library series. Some 250 examples of four-wheel drive and other special vehicles designed to carry passengers over rough ground are described and illustrated in this useful reference work.

There are plenty of good illustrations, and all the cars are listed alphabetically by make for easy reference, although a separate list by country might have been a helpful additional feature. Many of the famous cross-country vehicles are included: the ubiquitous Jeep, the popular Land-Rover, the luxurious Range Rover, the Austin Champ, and even the tiny Mini-Moke. Cars from Dodge, Toyota, Volkswagen, Citroën and Chevrolet also appear in this study of post-war civilian and military vehicles.

The history of each car is described briefly, but modellers might find the book a little lacking in detailed specifications. Nevertheless the photos should prove most helpful.

LETTERS TO THE EDITOR

F4E Phantoms

FOR SOME TIME I have been collecting information to help with the construction of two F4E Phantom models and I found Mr Philpott's article (September 1974) very helpful. I would, however, like to make several observations.

My own feeling is that the Hasegawa kit is preferable to the Airfix kit as Mr Philpott implies. However I disagree with him in that I prefer the Airfix ejector kits as a basis for further work, because the Airfix seat reproduces the headrest profile better.

For those working with the Airfix kit a point to note is that the versions (C, D, E and J) with the larger low pressure tyres have bulged main undercarriage housings (see Aircam No 41).

In the references given by Mr Philpott, especially the Aircams, one must be wary of false captions, which are easily spotted. One aircraft, with a very substantial Vulcan cannon under the nose, is captioned, 'F4D . . . !'

Recently, in addition to the tailplane slats mentioned by Mr Philpott, extra UHF aerials have been fitted. These consist of strips of yellow plastic on the fin, intake and lower nose, as shown in the accompanying photograph of an RF4C.

Contributions

Letters to the editor selected for publication entitle the senders to each receive a free Airfix plastic construction kit, and the publication of photographs from readers is similarly rewarded. Airfix Products Ltd award the kits on the following scale:

ONE letter or photograph published is rewarded by any kit from Series 1-8 inclusive. For TWO letters or photographs any one kit up to and including Series 12 can be chosen, or alternatively two kits up to Series 8. For THREE contributions the entitlement is any one kit from Series 1 to 20 inclusive, or any one kit from Series 1 to 12 plus two kits from Series 1 to 8, or any three kits from Series 1 to 8. Readers can make their choice on the special form which we send out after publication. The kits are supplied direct by Airfix Products Ltd.

Letters to the editor should be addressed to: the Editor, Airfix Magazine, Bar Hill, Cambridge, CB3 8EL. If a reply is wanted, a stamped addressed envelope (or International Reply Coupon) should be enclosed. All photographs submitted for consideration should be clearly labelled with the sender's name and address on the back of each.

Opinions expressed by correspondents on this page are their own and do not necessarily reflect the views of the Editor or Airfix Products Ltd.

Finally some notes on painting the details (taken mainly from notes relating to the F4E but generally applicable to most versions). Cockpit — overall matt dark grey, straps pale brown, parachute and survival packs (on seat) green-brown, instrument panels matt dark grey, instruments black and white. Undercarriage — legs, wells, insides of doors, hubs — gloss white, also stores pylons on some A/C and missiles.

Ross Marven, Huntingdon.

German airborne forces

SOME LIGHT can be shed on the discrepancy between the number of parachutists stated to have been available for *Operation Sealion* and Mr Wise's order of battle for them.

In the invasion of the Low Countries in May 1940, the Air Landing Corps used the 1st Parachute Regiment of three battalions, the 2nd Parachute Regiment of two battalions, and divisional troops of the 7th Air Division. After the division's successes in that operation, its build-up to full strength was expedited. Casualties were replaced and the normal triangular organisation completed by raising a third battalion for the 2nd Parachute Regiment and a 3rd Parachute Regiment of three battalions. In addition, an ad hoc unit of parachutists and glider-borne troops, Assault Group Koch, which had been used with conspicuous success to neutralise the Belgian fortress of Eben Emael and seize bridges around it, was expanded into the 1st Assault Regiment, initially of one battalion but by May 1941 of four.

All these units were raised during 1940, and first committed to airborne action in *Operation Mercury*, the invasion of Crete in May 1941.

To what extent the new parachutists would have been available for *Sealion* is problematic, but the proportion considered available presumably accounts for the difference between the number used in the invasion of the Low Countries and that estimated for the invasion of England.

Mr Wise's description of glider-borne troops charging out of their gliders with guns blazing immediately on touchdown is a little fanciful. The DFS 230 glider was a small and very cramped machine carrying a pilot and nine, not eight men, comprising a section of ten. Its occupants had to clamber out rather than charge, although they were trained to do so quickly. They had to collect their carbines, stowed separately at the front of the passenger compartment, and unload the other stores, such as machine-guns, ammunition and radio sets, stowed behind the passenger compartment. Anything left in the glider on

the ground for any length of time would probably be destroyed, as the glider was a very vulnerable target. Only after this was the section ready for offensive action.

The account of using a machine-gun mounted on the DFS 230 rather surprises me. One was pintle-mounted in a dorsal position for in-flight defence and covering fire on landing, but I thought only later in the war. This machine-gun could not have been controlled by the pilot on landing, as Mr Wise implies. As a flexible mounting, the gun must have been manned in flight by one of the passengers; this gunner would have fired it on landing, to enable it to be used immediately, rather than after the pilot had clambered back to the gun position three seats behind his own, while everyone in those seats was going the other way to collect their carbines and get

out!
John L. Norris, New Barnet.

Victorians unite!

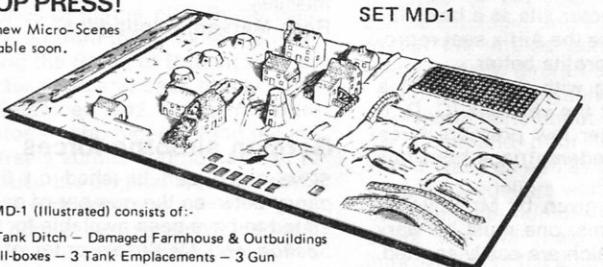
THE VICTORIAN Military Society is a non-commercial body whose aim is to foster interest in the military side of the Victorian period, including the armies of Britain and her Empire and, to a lesser extent, the armies of other nationalities. A quarterly journal is published for members, and original articles are welcomed by the editor, Stuart Asquith, 196 Torbay Road, South Harrow, Middx. HA2 9QL.

Membership of the VMS costs £2.50 per annum for adults and £1.50 for those aged 16 and under. Send your subscriptions, or write for further information (enclosing a SAE) to the treasurer, Terry Wise, Walnut

Tree Cottage, Netherend, Woolaston, Lydney, Glos.

IPMS Hants (North)

THE HAMPSHIRE (North) Branch of the International Plastic Modellers Society was formed earlier this year and is now well established. Regular meetings are held on the second Monday of every month, at the Farnborough Community Centre, Elles Hall, Pinehurst, Farnborough. The normal range of Branch activities takes place, and the Secretary, Mr P. J. Bultitude, assures anyone, whether an IPMS member or not, of a friendly welcome. Full details of meeting dates and times can be obtained from Mr Bultitude by sending him a SAE at: 2 Anglesey Avenue, Cove, Farnborough, Hants GU14 8SH.



STOP PRESS!
Two new Micro-Scenes available soon.

SET MD-1 (Illustrated) consists of:-
Anti-Tank Ditch - Damaged Farmhouse & Outbuildings
- 3 Pill-boxes - 3 Tank Emplacements - 3 Gun Emplacements - 2 Houses - Cottage - Water Mill with Stream section, Bridge & Road - Windmill with raised base and separate sail parts - River Bridge - Dragons Teeth Tank Traps.

● AVAILABLE FROM LEADING HOBBY STOCKISTS

BELLONA
MICRO-DIORAMA SERIES

1:285
SCALE
1:300

A new series of Landscape and Diorama Accessories designed by TERENCE WISE for the Micro-Wargaming Enthusiast.

SET MD-1 - MICRO-WARFARE ACCESSORIES (Illustrated)
SET MD-2 - LONG STOP HILL (North African Campaign)
SET MD-3 - BRIDGE OVER THE MEUSE (European Campaign)

PRICE 72p each including VAT.

MICRO-MOLD
1-2 UNIFAX WOODS WAY GORING-BY-SEA SUSSEX Tel: WORTHING 46999

Special Offer While Stocks Last

Badger 250-1 Air Brush
only £4.25

Badger 200 EX Air Brush
only £12.95

BADGER AIR BRUSHES

Model	List Price	My Price	Price Includes
100 XF or IL	£32.40	£27.70	Spare Needle
100 GXF	£32.40	£27.70	Spare Needle
150 IL	£34.67	£29.70	Spare Needle
Compressor	£48.57	£42.95	1/4" Thread Adaptor

Tyre Adaptor	92p	Spare Jars	21p
20 oz. Propellant	£1.60	On/Off Valve	£1.35
6 ft. Air Hose	£1.94	10 ft. Air Hose	£2.43
Foot Switch	£6.37	Air Filter	£8.64
Prop. Regulator	£3.20	Most Spares in stock	

HUMBROL MODELLER'S AIR BRUSH — Only £3.25
(Spare Jars to suit 13p)

JOHN L. SILVESTER
(MEMBER I.P.M.S.)

EXPO DRILLS

Reliant Mini Drill	£4.80	BLICK RUB DOWN DRY TRANSFERS 1/72
Titan Drill	£9.00	M1 Luftwaffe Sqdn. Codes 1939-45 White.
Reliant Mini Drill Kit (inc. 20 Assorted Tools)	£10.40	M2 Luftwaffe Sqdn. Codes 1939-45 Black.
Titan Mini Drill Kit (inc. 20 Assorted Tools)	£14.72	M3 Luftwaffe Swastikas 1939-45.
Reliant Major Drill Kit (inc. stand, transformer & 40 tools)	£39.17	M4 Luftwaffe Underwing & Fus. Crosses 1939-45.
Titan Major Drill Kit (inc. stand, transformer & 40 tools)	£43.35	M5 As M4 but "Simplified Design".
12v. Transformer/rectifier	£9.24	M6 Luftwaffe Upper Wing Crosses 1939-45.
Multi purpose stand	£9.96	M7 As M6 but "Simplified Design".
SEND S.A.E. for BROCHURE		M8 Luftwaffe Rank and Sqdn. Markings 1939-45.
		M9 R.A.F. 'B' Type Roundels 1923-47.
		M10 R.A.F. 'C' Type Roundels Fin Flashes 1942-47.
		M11 R.A.F. 'A'1 Type 1937-42, 'A' Type 1915-42 and Fin Flashes Dec. 1940-42.
		M12 R.A.F. Prototype, Kill & Sqdn. Markings 1939-45.
		M13 R.A.F. Dark Red Codes & Serials 1939-45.
		M14 R.A.F. Codes Red & Light Grey 1939-45.
		M15 R.A.F. Codes Sky Type 'S' Light Grey 1939-45.
		M16 R.A.F. Codes & Serials Black 1939-45.
		M17 Italian Upper/Lower Wing Fasces 1938-45.
		M18 Italian Squadriglia/Stormo/Gruppo 1938-45.
		M19 Italian Codes RED BLACK WHITE 1938-43.
		M20 Luftwaffe Red Codes & Letters 1939-45.
		M21 U.S.A.F. Codes & Numbers Black/White 1941-45.
		M22 U.S.A.F. National Insignia.
		M23 U.S.A.F. 1/48 Scale for P47, P51, P38 1941-45.
		M24 U.S.A.F. Markings for P47, P51, P38 1941-45.
		M25 Luftwaffe Composite Sheet 70 Impressions.
		M26 Luftwaffe Large Size Crosses 1939-45.
		M27 Russia Red, Yellow, White Numerals 1939-45.
		M28 Russia Stars, Guards & Kill Markings 1939-45.
		M29 Luftwaffe Squadron Codes Yellow, Black.
		M30 Luftwaffe Sqdn. Codes 42 Meter Yellow, Black.
		M31 Canada, Maple Leaf 2 Styles, Roundels.
		M32 Canada, Maple Leaf 2 Styles, Lettering.
		M33 Canada Buzz Nos. & C.A.F. Letters.
		M34 Canada R.C.A.F. Lettering & Stencils.
		M35 U.S.A.F. National Insignia (Navy).
		M36 Luftwaffe Night Fighter Markings.
		M37 Luftwaffe Green Sqdn. Codes & Numbers.
		M38 Luftwaffe Staffel/Gruppe Markings 1939-45.
		M39 Luftwaffe Sqdn. Codes & Stencils 1939-45.
		M40 Finnish A.F. National Insignia.
		M41 Finnish A.F. Unit Insignia & Serials.
		M42 Finnish A.F. Squadron Codes.
		M43 Italian Co-Belligerent Air Force.
		M44 Japanese A.F. Prop. Stripes etc.
		M45 Japanese A.F. Hinomaru Stripes/Stencils.
		M46 Japanese A.F. White Sentai & Carrier.
		M47 Japanese A.F. Black Sentai & Carrier.
		M48 Squadron Scale Model Markings.
		54p each Post/packing 1-3 14p; over 3 17p

RUB 'N BUFF

Pearl Blue	99p
Silver	
Gold	
Copper	

1/72 Reyhex Conversions

HH 3F Helicopter	30p
Canberra Mk 11/19	39p
Phantom RF48/C/E	55p
Sea King Helicopter	20p
Mosquito/Beaufighter	20p

NEW BOOK

Scale Model Aircraft in Plastic Card by Harry Woodman

£2.95

Post & Packing: Please add 10% (min. 25p) to all orders under £8.00.
Payment by Access Card Welcome

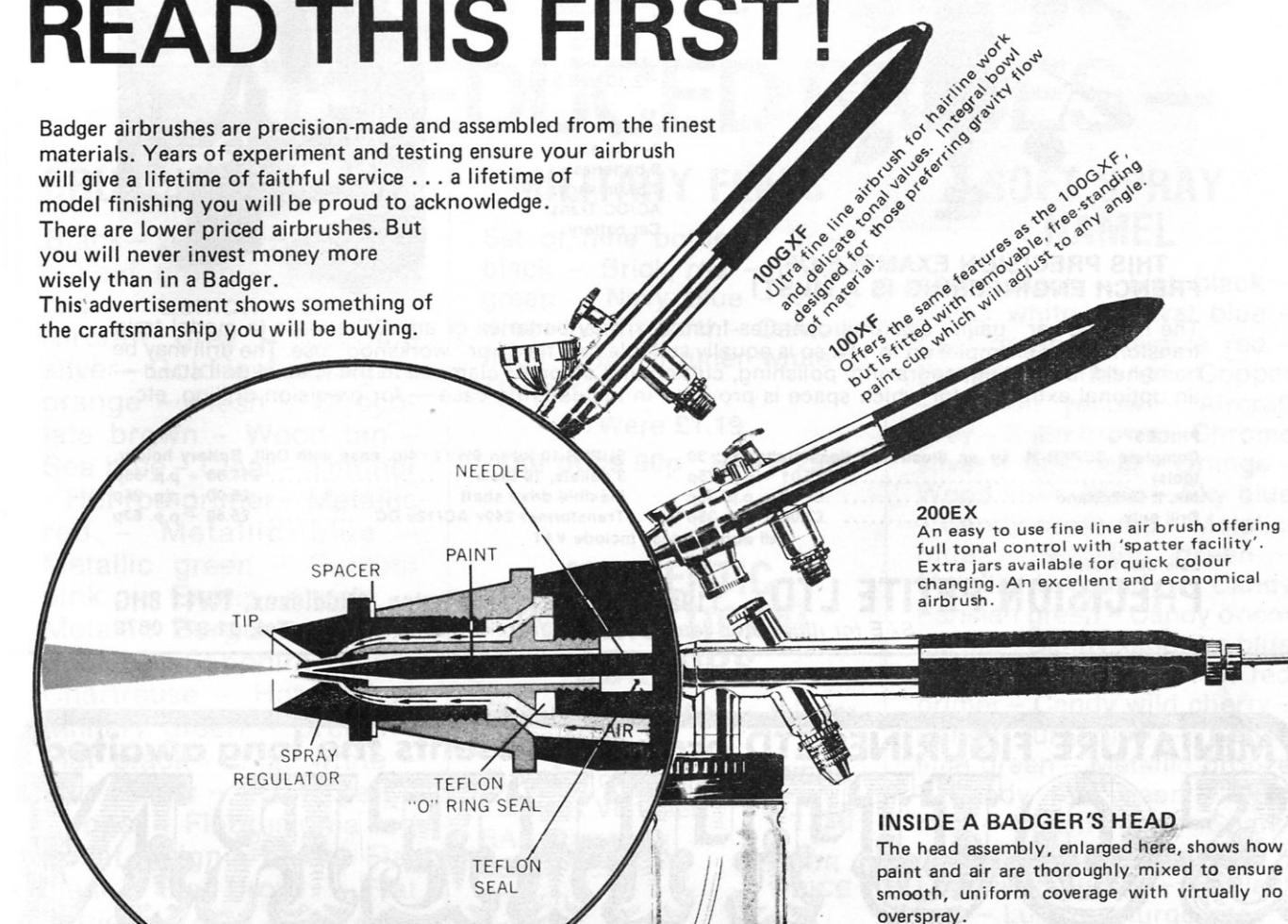
HUMBROL MODELLER'S AIR BRUSH — Only £3.25
(Spare Jars to suit 13p)

**51 THE PAVEMENT, PARK HILL,
SHEFFIELD S2 5RD Tel. 0742 23897**

If you are thinking of buying an airbrush, READ THIS FIRST!

Badger airbrushes are precision-made and assembled from the finest materials. Years of experiment and testing ensure your airbrush will give a lifetime of faithful service . . . a lifetime of model finishing you will be proud to acknowledge.

There are lower priced airbrushes. But you will never invest money more wisely than in a Badger. This advertisement shows something of the craftsmanship you will be buying.



Please Note:

The internal mix head assembly is common to all Badger 100, 150, and 200 series airbrushes.

We are AUTHORISED Sales and Service Division of the Badger Airbrush Company with a thoroughly experienced staff capable of answering your queries on techniques and finishing methods. A stock of the COMPLETE range of Badger Airbrush equipment always on hand.

**BEST
BUY A
BADGER**

MORRIS & INGRAM(London) LTD

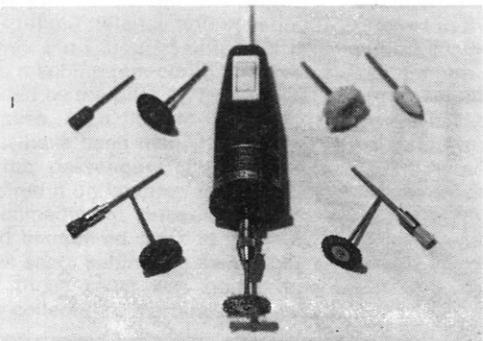
156 Stanley Green Road Poole Dorset BH15 3BE Tel: (02013) 3757
Please send details of the Badger Airbrush range to:

Name

Address

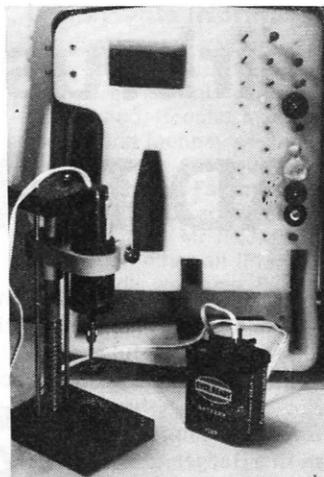
PETITE PRECISION

a power tool for the modeller



Diameter:
33 mm.
Weight: 160 grams
Length:
125 mm.
Torque:
105 cmg.
Chuck size:
2/10 to 2.5 mm.

POWER
9-14v. d.c.
2 batteries
4.5v. in series.
AC/DC Trans.
Car battery



THIS PRECISION EXAMPLE OF FRENCH ENGINEERING IS A MUST!

The high power "palm" size drill operates from 2 x 4.5v batteries or any DC source (a model train transformer for example) up to 14v, so is equally suitable for "field" or "workshop" use. The drill may be hand-held for routing, engraving, polishing, cutting and so on or clamped in the special drill stand — an optional extra, but for which space is provided in the carrying case — for precision drilling, etc.

PRICES

Complete SUPER-30 kit as illustrated (less batteries, 30 tools)	£15.01 + p.p. 75p
Mk. II Drill Stand	£3.76 + p.p. 35p
Drill only	£7.00 + p.p. 35p

All above prices include VAT

Sole Distributors:

PRECISION PETITE LTD., 119a High Street, Teddington, Middlesex, TW11 8HG
SAE for illustrated leaflet and order form please Tel: 01-977 0878

MINIATURE FIGURINES LTD proudly presents the long awaited

SOUTHERN MILITARY FAIR

Don't miss this great exhibition held at
THE POST HOUSE HOTEL SOUTHAMPTON
APRIL 3rd & 4th

WARGAMES-DISPLAYS-DEMONSTRATIONS-COMPETITIONS

The Exhibition will centre round Trade Stands, Audience participation games, Club Displays, Painting Competitions organised by the South Hants Military Modelling Society to B.M.S.S. Rules, outdoor activities and as many other attractions as possible over the weekend. Competitions will include Figures, Vehicles, Aircraft, Vessels and Wargame Units. 20 Competitions in all. There is ample car parking space, a bar and full refreshment facilities in a relaxed sumptuous atmosphere.

Opening Times
Saturday, 3rd April 10.30a.m. - 6.00p.m.
Sunday, 4th April 10.30a.m. - 4.00p.m.

Admission: Adults 30p Children 15p

Organised by Neville Dickinson

For
Further Information
Competition Rules
Map and Directions
Accommodation Details
Send S.A.E. to
Miniature Figurines
28-32 Northam Rd.
Southampton.
SO2 0PA

76

SUPER QUALITY AMERICAN PACTRA PAINTS — AT REDUCED PRICES —

BRUSHING ENAMEL

Black - White - Royal blue - Leaf green - Mandarin red - Lemon yellow - Aircraft grey - Chrome silver - Gold leaf - Insignia orange - Flesh - Chocolate brown - Wood tan - Sea blue - Clear - Thinner - Hot rod primer - Metallic red - Metallic blue - Metallic green - Custom pink - Exotic purple - Metallic Burgundy - Turquoise - Sapphire blue - Chartreuse - Hot pink - Military green - Orchid - Flat black - Flat white - Flat yellow - Flat green - Copper - Flat insignia red - Flat insignia blue - Flat clear - Flat brown - Flat battleship grey - Flat dark olive - Flat earth - Flat zinc chromate - Flat light olive - Flat sea grey - Flat metallic tan - Flat light blue

11p each 10 for £1.00

Set of CUSTOM COLOURS

Metallic - Candy & Exotic
10 assorted
Special price 90p

POSTAGE

SPRAY PAINTS
One tin 18p; other tins, each 10p to 48p parcel post.
OTHER PAINTS
Sets 25p; Second set, add 15p up to parcel post 48p.

MILITARY FLATS

Set of nine bottles - Scale black - Brick red - Forest green - Navy blue - Olive drab - Light earth - Camouflage grey - Primer white - Thinner

Were £1.19

Our price 90p SAVE 29p

AUTHENTIC INTERNATIONAL COLOURS

Each pack 6 bottles + thinner
USAAF Vietnam
Jap Air Force
Tanks & Vehicles
RAF European
US Air Force
French
Italian
Russian Air Force
W.W.1 Aircraft
Naval Vessels
Combat Uniforms

**WERE £1.10
OUR PRICE 90p
SAVE 20p**

SOFT SPRAY 'NAMEL

Gloss black - Flat black - Gloss white - Royal blue - Leaf green - Insignia red - Flat white - Flat red - Copper - Lemon yellow - Aircraft grey - Satin brown - Chrome silver - Gold leaf - Orange - Wood tan - Clear - Sky blue - Candy apple red - Metallic blue - Metallic green - Metallic burgundy - Candy Parisian green - Candy orient purple - Candy sapphire blue - Undercoat gold - Hot red primer - Candy wild cherry - Candy turquoise - Candy lime green - Metallic bronze - Candy root beer - Gold mist - Blazing red - Sparkling burgundy - Star blue - Lightning purple - Radian lime - Lustrous turquoise.

50p each

CUSTOM SPRAYS

3 assorted diamond flake
£1.50 including post

COLOUR CHARTS

Limited number available for deposit of 50p which is returnable if colour chart is returned, clean, with order exceeding 50p.

BRIDGE + MODELS

1-2 STATION PARADE, HOE STREET BRIDGE,
WALTHAMSTOW, LONDON E17 Telephone: 01-520 4565
9 a.m. - 6 p.m. every day except SUNDAYS

ANCIENTS!

THE MOST COMPREHENSIVE SET OF REFERENCE BOOKS FOR WARGAMERS AND MODELLERS OF THE ANCIENT WORLD —

THE ARMIES & ENEMIES SERIES

ARMIES OF MACEDONIAN & PUNIC WARS
U.K. £1.70, U.S.A. \$4.60, or \$6.50 (air)

ARMIES & ENEMIES OF IMPERIAL ROME (2nd edition)
U.K. £2.60, U.S.A. \$7.00, or \$8.20 (air)

ARMIES & ENEMIES OF ANCIENT EGYPT & ASSYRIA
U.K. £2.65, U.S.A. \$7.00, or \$8.20 (air)

ARMIES OF GREEK & PERSIAN WARS
U.K. £2.75, U.S.A. \$7.20, or \$8.40 (air)

ARMIES & ENEMIES OF ANCIENT CHINA
U.K. £3.50, U.S.A. \$9.00, or \$11.00 (air)

Also rules for Ancient Warfare, now in 5th edition and spanning 3000BC-1250AD
U.K. £1.50, U.S.A. \$4.40, Air \$6.00

An SAE will bring our full list of rules in many periods. Reference books and boxed games, from

WARGAMES RESEARCH GROUP
75 Ardingly Drive, Goring-by-Sea, Sussex

All prices include appropriate post and packing, and charges for changing U.S.A. personal cheques in dollars

American
DA1 Grant Tank
DA2 Sherman Tank
DA3 Stuart Tank
DA4 Sherman Firefly
DA5 Pershing
DA10 M8 Armoured Car
DA11 M10 Tank Destroyer
DA12 M18 Tank Destroyer
DA13 M36 Tank Destroyer
DA20 M3 1/2-Track
DA21 1-ton Jeep
DA22 DUKW
DA23 Mack 6 x 6 Truck
DA24 Chev 30-cwt Truck
DA25 Chev LRDG Truck
DA30 105 mm Howitzer

Italian
D11 M13/40 Tank
D12 Semovente 75/18
D13 Autoblinda Armoured Car

German
DG1 Pz.Kpfw.I Tank
DG2 Pz.Kpfw.II Tank
DG3 Pz.Kpfw.III Tank
DG4 Pz.Kpfw.IV Tank F1
DG5 Pz.IV F2
DG6 Pz.IV aus.H
DG7 Tiger I Tank
DG8 Tiger II Tank
DG9 Jagdtiger
DG10 Panther Tank
DG11 Jagdpanther
DG12 Stug.III Assault Gun
DG13 Elefant
DG14 Pz.Kpfw.4.7 cm Pak (t)
DG15 Pz.Kpfw. 38(t)
DG16 Sturmtriger
DG17 Nashorn 88 mm SP Gun
DG18 Jagdpanzer IV
DG19 Marder III
DG20 Jagdpanzer Hetzer
DG21 Sturmpanzer IV
DG22 Marder III Pak 76.2 mm (R)
DG23 PzF8 Wespe 105 mm SP Gun
DG24 Hummel
DG25 Sd.Kfz. 222 Armoured Car
DG31 Sd.Kfz. 232 Armoured Car
DG32 Sd.Kfz. 234/2 (Puma)
DG33 Sd.Kfz. 233 Armoured Car
DG34 Sd.Kfz. 234/4
DG35 Sd.Kfz. 234/4
DG36 Sd.Kfz. 250
DG41 Sd.Kfz. 250/8 7.5 cm L/24
DG42 Sd.Kfz. 250/9 80 mm
DG43 Sd.Kfz. 250/4 80 mm
DG44 Self-Propelled Mortar
DG45 Sd.Kfz. 251 1/2-Track
DG47 Sd.Kfz. 251/7 Engineers
Vehicle
DG48 Sd.Kfz. 251/9 75 mm L24

Russian
DR1 KV1 Tank
DR2 T34/6 Tank
DR3 T34/8 Tank
DR4 KV2 Tank
DR5 BT 7 Tank
DR6 JS II Tank
DR7 Stalin Tank
DR8 KV/85 Tank
DR9 BA-10M Armoured Car
DR15 SU 76 Assault Gun
DR16 SU 85 Assault Gun
DR17 SU 100
DR18 SU 122 Assault Gun
DR19 JS 152 Assault Gun
DR30 Gaz 4 x 6 Truck
DR31 Gaz 4 x 4 Truck
DR22 Gaz Jeep
DR40 M39 Anti-Tank Gun
DR41 152 mm Tracked Howitzer
DR42 Katyusha Rocket Launcher
DR10 Gaz 69 Armoured Car
DR32 Gaz 64 1/2 Track Truck

French
DF1 Char B1 Tank

For details of our other products send a stamped self-addressed envelope or ring the shop.
Nottingham 43457.

UK, BFPO, AFPO — 10%
up to £5. Over £5 FREE
Overseas — 60% up to £7
30% over £7

1/300 MICROARMOUR

8p each

British
DB1 Crusader Tank
DB2 Matilda Tank
DB3 Valentine Tank
DB4 Churchill Tank
DB5 Cromwell Tank
DB6 British A9 Tank
DB7 Vickers Light Tank
DB8 A13 Cruiser Tank
DB9 A10 Challenger
DB10 Crusader III AA
DB20 Humber Armoured Car
DB21 Stag Hound Armoured Car
DB22 Daimler Armoured Car
DB23 Harrington Armoured Car
DB24 AEC Mk I Armoured Car
DB25 Rolls Royce Armoured Car (1930-41)
DB30 Daimler Scout Car
DB31 Bren Carrier
DB32 White Scout Car
DB33 Humber Staff Car
DB34 Quad Truck
DB35 Bedford QL 3-ton Truck
DB36 Austin Bowser
DB37 Scammell Pioneer
DB38 Scammell Breakdown Crane
DB39 Austin 3-ton Truck
DB40 Austin 30-cwt Truck
DB41 Morris 15-cwt Radio Truck
DB42 Morris 15-cwt Bowser
DB43 Scorpion Flail
DB44 Centaur ARV
DB50 25-pdr Gun (Firing)
DB51 25-pdr Gun (Limbered)
DB52 17-pdr Gun (Firing)
DB53 6-pdr Gun (Firing)
DB54 2-pdr Gun (Firing)
DB60 Bishop SP Gun
DB61 Bofors Quad
DB62 Archer 17-pdr SP Gun
DB63 Priest SPG
DB64 Buffalo Landing Vehicle Tracked

1/300 Aircraft
Group A — 13p Group B — 18p
Me 109 Thunderbolt
Spitfire V Me 110
Spitfire IX Mosquito
FW190 A3 Typhoon
Hurricane Stuka
Mustang P51D Me 262
Zero MRCA
Yak 9 Lightning
Buffalo MIG 23
Harrier VTOL Jet Phantom

POSTAGE

SKYTREX LIMITED
28 CHURCH STREET, WYMESWOLD, LEICESTERSHIRE

NEW FROM VINTAGE AVIATION PUBLICATIONS!

Supermarine SPITFIRE remembered
by Philip J. R. Moyes

90p post free

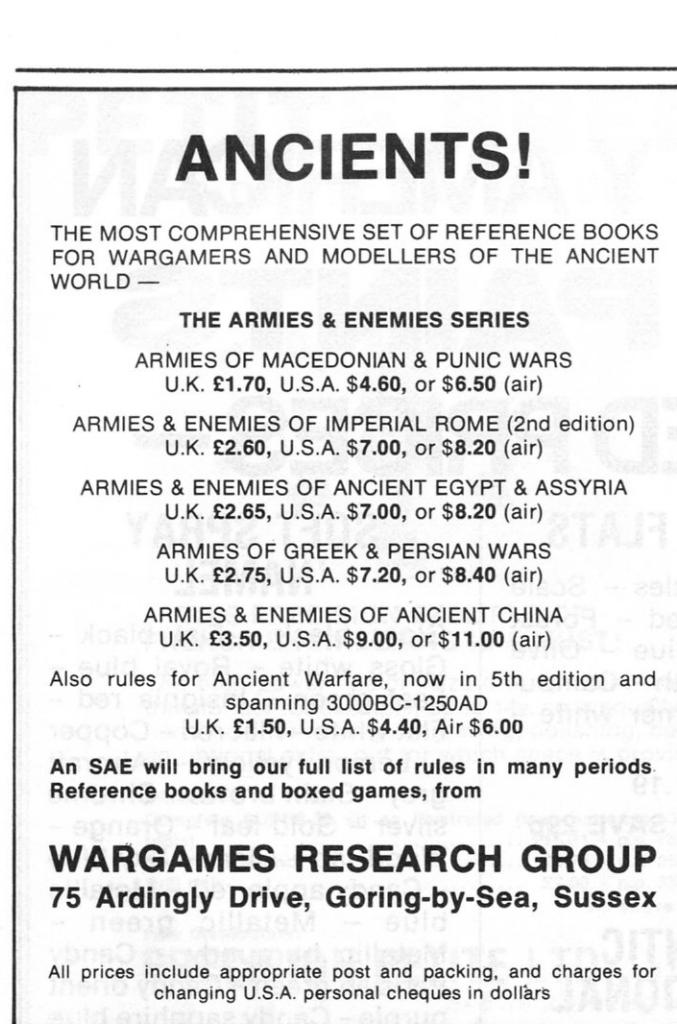
Contents include

- Family album
- Development and production
- Interior details
- First blood - two Hurricanes!
- Six of the best
- 'Spit' squadron supreme
- Unwilling passengers.

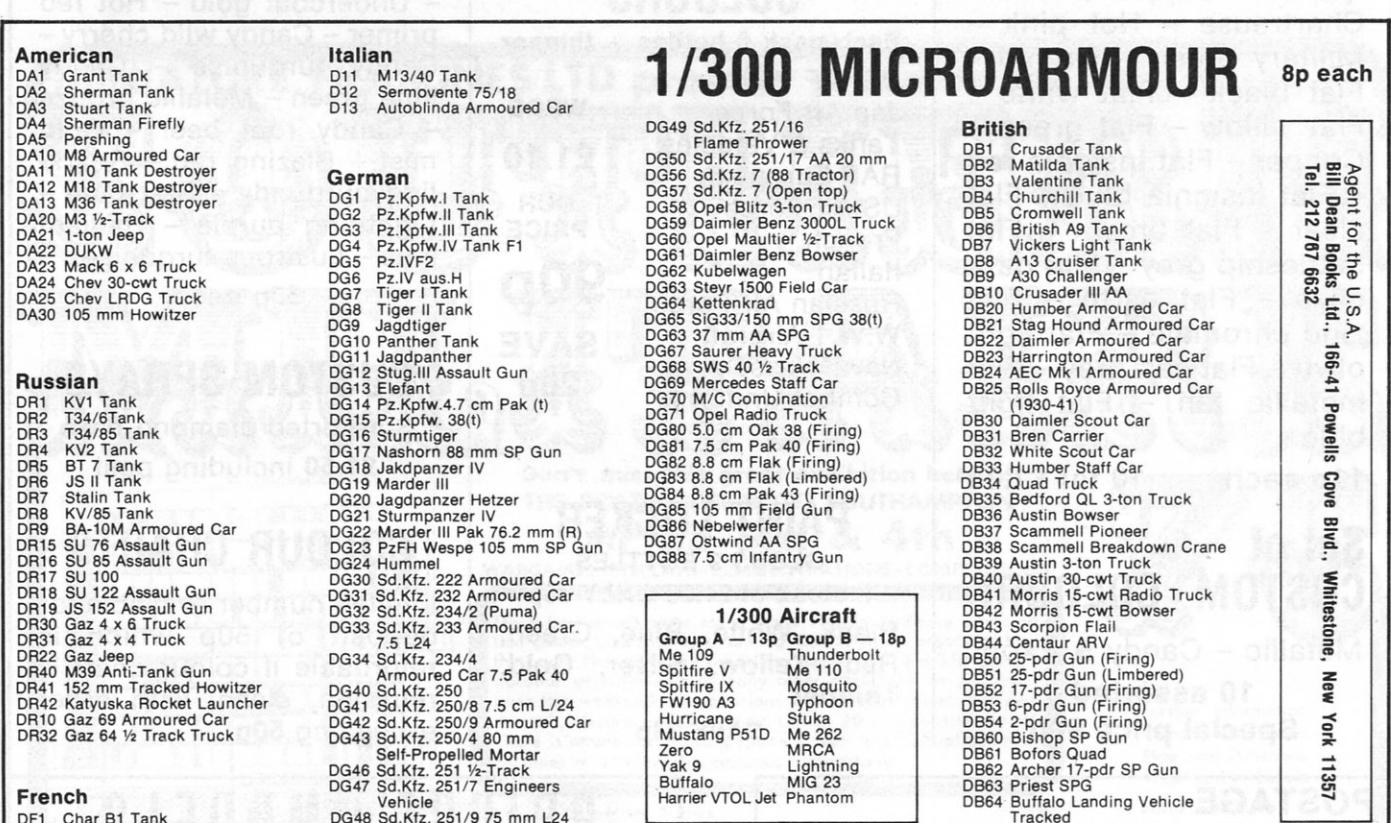
In the same series:
SHORT STIRLING REMEMBERED (90p post free)

Also send for **DATA PLANS** (1/72 scale super detail drawings, history and photographs)
NO 1 HAWKER WOODCOCK/DANEBOCK } each title
NO 2 BRISTOL BULLDOG } 70p post free

Send your order with P.O./Cheque today
to: VINTAGE AVIATION PUBLICATIONS LTD,
V.A.P. HOUSE, STATION FIELD INDUST. EST.
KIDLINGTON, OXFORD OX5 1LL.



Agent for the U.S.A.
Bill Dean Books Ltd., 166-41 Powells Cove Blvd., Whitestone, New York 11337



WARGAME X 60 = T

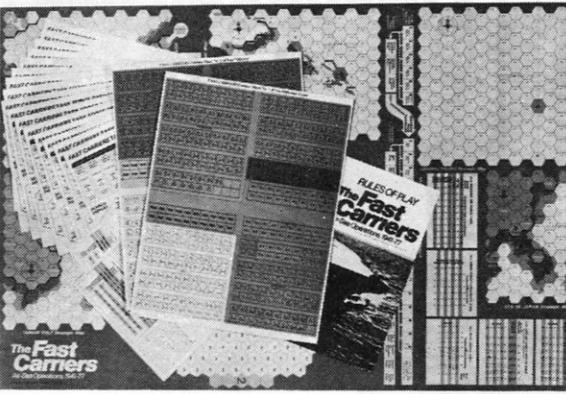
presented: 60 games re-creating famous battles from every period of history and at every level of operation — from the tactics of the Greek phalanx to the mechanised armies of Germany to the plane-to-plane electronic warfare of tomorrow. Exciting games of decisive action that allow you to assume the roles of the greatest commanders in history . . . enabling you to replay events and explore alternative outcomes.

The Fast Carriers

Air-Sea Operations, 1941-1977

- Includes Strategic, Operational, and Tactical Levels
- Ship Movement, Aircraft Allocation, Attack Coordination
- Nine Scenarios, Six Maps, 800 Counters
- Simultaneous Movement and Combat
- Search Missions, Limited Intelligence

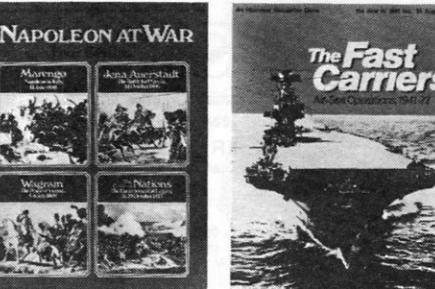
Fast Carriers is a recreation of carrier operations in the period from 1941 through the near future. The counter mix includes units representing carriers, battleships, cruisers, destroyers, submarines, fleet auxiliaries, flights of piston engined and jet engined aircraft, cruise missiles, weather and damage status, for a total of 800 counters in all. Six maps are provided. Five are strategic maps covering the Coral Sea - Solomons, the Central Pacific, the Sea of Japan, the Tonkin Gulf, and the Denmark Straits. The sixth is a tactical display map.



NAPOLEON AT WAR Quadrigame

Four complete Napoleonic Battle games games in one package!
Based upon the Borodino-NAW System
Separate 17" x 22" Maps and Counter Sheets

The Napoleon at War Quadrigame consists of four games, completely new and individual, and sold both separately and as a complete set. The battles depicted are among the most important of the Napoleonic wars: Marengo, Jena-Auerstadt, Wagram, and the Battle of Nations at Leipzig.



STRATEGY & TACTICS

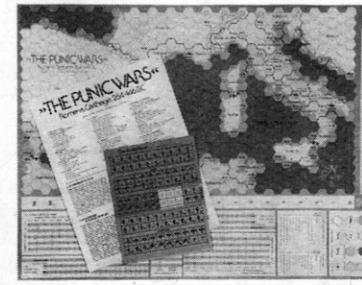


DOING HISTORY: Now, instead of merely reading about the great campaigns and battles that shaped the times we live in, you can do it! There's no more exciting way to understand a famous conflict than commanding the units that made the history. Directing the troops over a map of the actual battlefield, watching the shift and flow of the changing front lines as your forces advance, retreat, and counterattack. Every other month, subscribers to **Strategy & Tactics** get a chance to do exactly that. They do it by using the conflict simulation game that comes in every issue of **S&T**. **CONFlict SIMULATIONS** are serious games that enable you to recreate famous military situations and replay them, something like a game of chess. To understand. To solve. To win where others have lost.

YOU'LL GET a ready-to-play simulation game in each issue of **S&T**, including a large terrain map, die-cut playing pieces, and complete rules. You'll get two feature length historical articles (one which deals with the same subject as the game) plus game and book reviews, and commentary on simulations development.

THE MILITARY HISTORY MAGAZINE WITH A GAME IN IT!
Here are some of the great games that have been published in **S&T** Magazine: USN, Winter War, KampfPanzer, Tank, PanzerArmee Afrika, The American Civil War, Wolfpack, Sixth Fleet, Frederick the Great, Battle for Germany.

This month's issue contains 'The Punic Wars', Rome vs Carthage 264-146BC.



A SPECIAL FREE GIFT TO NEW SUBSCRIBERS:
Napoleon at Waterloo, history's greatest battle presented in a game specially created to introduce new reader/gamers to the essentials of conflict simulation is given with every new 1, 2 or 3 year subscription. Big discounts. Subscribers to **S&T** also enjoy substantial discounts on our full line of games. See details below.

The physical components of all games are generally similar, consisting of a playing map printed on cardstock or heavy paper (usually 22" x 35"), 100 to 400 die-cut, cardboard playing pieces, and complete rules. Standard and Quad games are individually packaged in a specially designed multi-compartmented plastic tray with a handsomely illustrated cover. Our low-priced **Folio Series Games** are packaged in an illustrated 9" x 12" glossy folder (with an interior pocket to hold the components). **Folio Games** have 17" x 22" maps and 100 counters. Note that most of the **Folio Games** may also be had as a part of a **Quadrigame** — a set of four related **Folios** packaged in a single plastic box.

TRADE ENQUIRIES WELCOME

Here's most of the collection . . .

(Listed alphabetically)

FOLIO GAMES

Antietam	£2.15	Tank	£4.55
Battle of The Nations	£2.55	Turning Point	£4.55
Battle for Germany	£2.15	U.S.N.	£4.55
Cemetery Hill	£2.15	Viking	£4.55
Chickamauga	£2.15	Global War	£10.99
Kursk	£2.15	Winter War	£4.55
La Grande Armee	£2.15	Wolfpack	£4.55
Lee Moves North	£2.15	World War II	£4.55
Legion	£2.15	World War III	£4.55
Marengo	£2.55	Yeoman	£4.55
Mukden	£2.15	Free Illustrated Leaflet	
Shiloh	£2.15	No discount.	
Wagram	£2.55		
Warzburg	£2.15		
World War I	£2.15		

STANDARD & QUAD GAMES

American Civil War	£4.55	NATO	£4.55
American Revolution	£4.55	Normandy	£4.55
Ardennes Offensive	£4.55	Operation Olympic	£4.55
Austerlitz	£4.55	Panzer Armee Afrika	£4.55
Barbarossa	£4.55	Panzer '44	£4.55
Blue & Gray Quads	£6.75	Patrol	£4.55
Borodino	£4.55	Red Star/White Star	£4.55
Breakout & Pursuit	£4.55	Search & Destroy	£4.55
Bull Run	£4.55	Seelowe	£4.55
CA	£4.55	Sinai	£4.55
Chariot	£4.55	Sixth Fleet	£4.55
Combined Arms	£4.55	Sniper!	£4.55
Desert War	£4.55	Soldiers	£4.55
Dreadnought	£4.55	Solomons Campaign	£4.55
East is Red	£4.55	Spartan	£4.55
Fast Carriers	£5.45	Spitfire	£4.55
		Starforce	£4.55
		Strategy 1	£7.99

New S.P.I. games expected soon are "Sorcerer", the game of magical conflict and "Island War Quads", four complete Pacific Battles in one package. Watch our adverts for further details.

Subscribe to Strategy & Tactics

the bi-monthly magazine of military history that gives you a complete simulation game with every issue!

6 months (3 issues) £4.00

1 year (6 issues) £7.50

2 years (12 issues) £14.40

3 years (18 issues) £20.70

Single Issue (current) £1.75

RAREplanes have now issued another magnificent 1:72 scale vacform superkit featuring the first and most beautiful of all 'Flying Fortresses' — the BOEING YB-17. Contained in every box is a separate 30-part conversion fuselage for the BOEING B-17D (RAF Fortress I). By adding Revell Fortress wings, the modeller can complete a second impressive model for his collection. Only 1,000 kits will be made. Price £4.50 inc VAT in UK.

Contact the better model shops, or write to

rareplanes

18 Hillford Place, Earlswood, Surrey, England



DUSTCOVERS

thermoformed in lightweight crystal-clear plastic



TITAN MANUFACTURING
24/26 HIGH ST, SOUTHALL, MIDDX,
ENGLAND

Tel. 01-574 3173

Stocked by all the best model shops

Send S.A.E. now for brochure



Suitable for
Galleons, Ships
Large Tanks
Cars
Aircraft
Militaire
(foot and
mounted)
Dioramas, etc.,
etc.

**Everybody will want
the bigger**

AIRFIX
magazine

Make sure you are not disappointed.
Order now from your newsagent
or use the order form on page 316.

ROS FIGURES and HEROICS FIGURES

Ros Figures and Heroics Figures now combine to bring an unrivalled selection of micro-tanks, of 25 mm wargame figures and Heroics unique range of 1/300 scale figures together with a really efficient mail order service. All our figures are made of high quality tin-lead alloy and great attention is paid to detail and proportion

ROS WORLD WAR II MICRO-AFV's

German	GAZ-AAA	Humber A/C	USA	UK
Panzer IIB	GAZ-60	Daimler S/C	M60A1*	Chieftain*
Panzer IIF	JAG-12	Daimler A/C	M60A2*	Centurion*
Panzer II Flame	GAZ-67 (6b)	Universal Carrier	M551 Sheridan*	Centurion AVRE*
Waspe	Katyshev on Studebaker	Wasp flame thrower	T-62*	FV432
Lynx	Katyshev on GAZ	ACV Dorchester	T-55*	FV438 Swingfire
Panzer IIIJ	M42 45 mm AT	ACV ALC	T-55 dozer*	Anholt*
Panzer IIIM	M41 57 mm AT	6 pdr	T-55 mine clearer*	Saadiq
Panzer IIIN	M44 100 mm AT	17 pdr	T-10M*	Saracen
StuG III	M39 76.2 mm	25 pdr	PT-76*	Fox
Panzer IVD	Sdkfz 11 Tractor	152 mm howitzer	BTR 40P with swatter	Ferret
Panzer IVF	Sdkfz 7 Tractor	203 mm tracked howitzer	BTR 60PB	Ferret 2/6
Panzer IVF2	3.7 cm Flak on Sdkfz 7	5.5 in howitzer	BRDM-2	Scorpion
Panzer IVF3	Pak 35/36	7.2 in howitzer	BRDM-2 with sagger	Sri Lanka
StuG IV	Pak 38	Quad	ASU 85	Stuka
Jagdpanzer IV	Pak 40	Bedford QL	UAZ 469	Rapier
Hummel	Pak 43/41	Chevrolet 15 cwt	BM 21 rocket launcher	Jaguar (15p)
Nashorn	Pak 43 8.8 on cruc. trail	BT-7	ZSU-23-4*	Spartan
Pz 38 (t)	7.62 Pak 36 (r)	UK	ZSU-57-2*	Leopard A1
Marder III Sdkfz 139	10.5 cm howitzer	Honey	D-30 122 mm gun	Leopard A2
Marder III H	15 cm howitzer	Grant	152 mm M-1955 howitzer	Leopard A4
Hetzer	17 cm howitzer	Sherman M4A1	M-55 100 mm AT	Marder
Panther D	8.8 Flak	Firefly	Mil Mi-24 (hind) (15p)	Gepard*
Panther G	7.5 cm G36 mountain gun	Matilda	Sukhoi Su 7 (15p)	Jagdpanzer Rakete
Jagdpanther	7.5 cm infantry gun	Valentine II	BTR-50	Jagdpanzer Kanone
Tiger I E	15 cm infantry gun	Valentine IX	BMD Para-APC	Swedish
Tiger II Porsche	Nebelwerfer	Archer	BM 14 RL	S-tank
Tiger II Henschel	Karl tracked mortar (15p)	Bishop		1kv 91*
Jagdtiger		Churchill III		
Elefant		Churchill SBG Bridgelay		
Brummbaer		(10p)		
Sturmtriger		Churchill AVRE (10p)		
Hanomag Sdkfz 251/IB		Churchill Crocodile (10p)		
Sd 251/10 + 3.7 Pak		Churchill Arc (10p)		
Ostwind		Ram Kangaroo		
Westwind		A9		
Sd 251/16 Flame	T35	A10		
Sd 251 Rocket Launcher	T28	A13		
Arm d. Maultier Rocket L.	JS II	Crusader I		
Sd 250	JS III	Crusader III		
Sd 250/9 A/C	ISU 152	Cromwell		
B IV demolition vehicle	T-26B	Comet		
Opel Blitz	BA-10	Challenger		
Opel Maultier softskin	BA-32	Sherman Crab (10p)		
Kubelwagen (6p)	T-70	Sherman DD (10p)		
	BA-64	Marmon Herrington		
		M-4 HS Tractor		

NATO Infantry 50p pack of 50. **NATO Heavy weapons** 50p pack of 50. **Warsaw Pact Infantry** 50p pack of 50. **Warsaw Pact Heavy Infantry weapons** 50p pack of 50. Many other periods available send SAE for full lists.

Heroics Modern Tanks are 8p except where asterisked which are 10p, aircraft and helicopter gunships are 15p.

Ros Micro-AFV's are all 8p except where marked. Send SAE for lists of Heroics WW2 figures, German, British, American, Russian, German Paratroops, British Paratroops, German and Soviet Cavalry all amazingly detailed in 1/300 scale. We accept ACCESS and BARCLAYCARD. Just send your card number. Postage and Packing: UK 10% in £, over £5 5%. Overseas airmail 40% in £, Seafair 20% in £, Europe 15% in £.

Other AFV's, Italian etc. and German and Russian trains available. Send for lists.

PLEASE NOTE OUR NEW ADDRESS

HEROICS and ROS FIGURES 36 Kennington Road, London, SE1, UK

No. 8

What do you know about the police?



1. Are policemen allowed to wear beards?



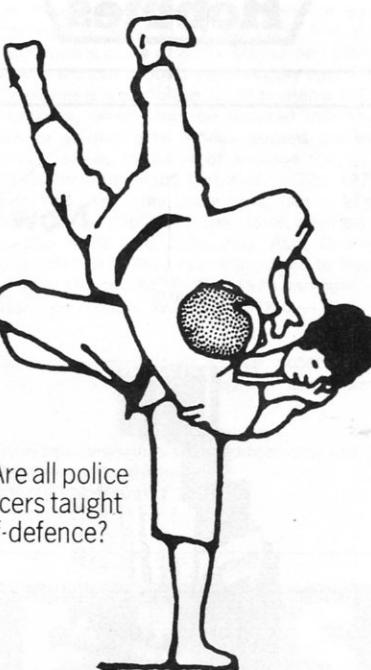
4. What is the rank of the policeman wearing these on his shoulder?



2. What is a Special Constable?



3. Which four emergency services can you call by dialling 999?



5. Are all police officers taught self-defence?

This is the eighth in a series depicting the background, present-day work and development of Britain's police force. Watch out for the next in the series, which will appear shortly in this publication. For further information about the police write to Police Quiz, (BJ14) Home Office, London SW1A 2AP.

1. Yes.
2. A part-time voluntary unpaid officer who assists the regular constables, coastguards, firemen and policemen in times of stress.
3. Police, ambulance, fire-and-rescue services, coastguards, firemen and policemen in times of stress.
4. Chieftain, Centurion, Centurion AVRE, FV432, FV438, Swingfire, Anholt, Saadiq, Saracen, Fox, Ferret, Ferret 2/6, Scorpion, Sri Lanka, Stuka, Rapier, Jaguar (15p), Spartan, Leopard A1, Leopard A2, Leopard A4, Gepard, Jagdpanzer Rakete, Jagdpanzer Kanone.

ANSWERS

We are stockists for Tamiya, Bandai, Monogram, Fujimi, Entex, Airfix, Revell, Hasegawa, Life-Like, Protar, Bellona, Otaki, Nitto, Italaerei and Esci.

Also Figures

Hinchliffe (25 mm, 54 mm and 75 mm), Mini-Fig (25 mm), Phoenix, Historex, Lassett, Sanderson and Cameo (54 mm).

If you are in our area call in, or write for our complete stock list enclosing large SAE to:

All enquiries (with SAE) replied to.

Highbury Hobbies
228 St. Paul's Rd.,
London N.1.
Tel: 01-359 0580

PETER LAING 15 mm METAL FIGURES

NEW RELEASES

ANCIENTS			
F454 Peleset light infantry	4p	F460 Hittite spearman	4p
F455 Egyptian spearman with shield	4p	F461 Hittite archer	4p
F456 Egyptian heavy infantry with poleaxe	4p	F462 Assyrian slinger	4p
F457 Kharu auxiliary	4p	F463 Assyrian auxiliary archer	4p
F458 Hittite axeman	4p	F464 Persian infantry with sword and shield	4p
F459 Hittite guardsman	4p	M415 Egyptian horseman	8p
M416 Assyrian medium horse archer	8p	M422 Hittite chariot	12p
A423 Hittite chariot horse (2 reqd)	6p	A424 Peleset ox chariot	16p
(A412 Ox 8p. 4 reqd for A424)			

LINK ITEMS Suitable for use with 100 & 300 series for 7 year war etc

F1011 Austro Hungarian Croat infantry advancing	4p	F1012 Austro Hungarian Fusilier advancing	4p
M1002 Mounted cuirassier	8p	M1004 Pandour type cavalry	8p
M1003 Hussar charging	8p		

E.C.W.

F515 Dismounted dragoon firing	4p	F516 Dragoon horse holder	4p
M507 Mounted dragoon	8p	M508 Riderless horse for F516	8p

COLONIALS

A620 Maxim gunner (for A619)	4p	A621 Indian gunner kneeling	4p
A622 Indian gunner with rammer, kneeling	4p	A623 British muleteer	4p
A624 Indian muleteer	4p	A625 Pack mule	8p
		A626 Wheel carrying mule for A601	8p

OTHER NEW ITEMS

F125 Field guide	4p	F218 Unarmoured axeman with 'kite' shield	4p
F913 Priest with cross	4p		

Also 26 Napoleonic Items (New Series)

P & P extra. Orders up to £1, 14p; £2, 15p; £3, 17p; £4, 19p; £5, 21p. Over £5 Post Free. Overseas add 25% (Air Mail) min. 80p. Send 12p for list + sample figure. Over 450 items in 10 different periods available.

PETER LAING
Minden, Sutton St. Nicholas, Hereford HR1 3BD
Tel. 518 (STD 043 272)

PLASTRUCT

Now available from 120 stockists in the UK

BEAMS
COLUMNS
ANGLES
CHANNEL
TEES

SHEET
STRIP
TUBES
SQUARE
RECTANGULAR



The finest solvent on the market for polystyrene, A.B.S. and perspex.



All in A.B.S. plastic, top quality materials as used by the pro's.

Send 25p for catalogue and list of stockists

E.M.A. MODEL SUPPLIES LIMITED
94 THE CENTRE, FELTHAM, MIDDX
Telephone: 01-890 5270 Telex: 263439

Please address your correspondence to
AIRFIX Magazine,
Classified Advertisement Department,
Bar Hill, Cambridge, CB3 8EL.

Rates 10p per word. Minimum charge £1.
Box numbers 40p extra charge.
All advertisements must be prepaid.
Please state classification required.



magazine classified adverts

Closing date for next available issue February 15

The publishers of AIRFIX magazine must point out to readers that, while every care is taken to check the bona fide nature of all advertisements, they cannot accept any responsibility for disputes which might arise.

Lichen, large packets of perfect miniature foliage only 60p post paid: John Spikes, Cwmparc, Blaenplwyf, Aberystwyth, Dyfed. (1939S)

Airfix Magazines March 1968 - May, July, August 1973; Miniature Warfare February 1969 - April 1974; both good condition — offers. WW2 military history and wargames books — S.A.E. for list. Box No 1941S. (1941S)

PERSONAL

Black and White Developing: 12 — 80p; 20 — £1.50; 36 — £2.10. Colour (not type X): 12 — £1.80; 20 — £2.80; 36 — £3.80. B&W contact sheet: 75p; Colour £1.75. Any size enlargements

LANCHESTER POLYTECHNIC
Coventry - Rugby

Designing Transportation for our future needs

If this interests you find out about the Degree Course in Industrial Design/ Transportation from the Industrial Design Secretary, Lanchester Polytechnic, Faculty of Art and Design, Coventry CV1 5RZ

Missed an article in your favourite series? Or heard about some conversion you particularly want to try but can't find the appropriate issue of *Airfix Magazine*? Don't worry, we can probably still supply you. The following is a complete list of available back numbers, which may be ordered individually or in multiples. Prices quoted are for single issues, inclusive of postage.

1969 Mar, Aug, Sept, Oct, Nov — 22p. 1970 Feb, Mar, Apr, May, June, July, Oct — 22p; Nov, Dec — 25p. 1971 Jan, June, Sept — 25p. 1972 Jan, June, July, Aug, Dec — 25p. 1973 Jan, Feb, Apr, May, June to Sept — 25p; Oct to Dec — 28p. 1974 Jan-Nov — 28p. Dec — 32p. 1975 Jan to Dec — 32p.

Send your cheque or postal order (NOT cash or stamps) made out and addressed to:

Surridge Dawson & Co (Productions) Ltd, Publishing Department, 136/142 New Kent Road, London SE1.

I.P.M.S.
INTERESTED?
Then send a 's.a.e. for details of the Society to:-
The Hon. Secretary,
International Plastic Modellers' Society,
35 Clares Green Road,
Spencers Wood,
Reading RG7 1DY.
England.

NOW
Subscriptions SLASHED!

ALEXANDERS (Model Dept.)
268 Kentwood Hill, Tilehurst, Reading, Berks. RG3 6DR Tel. Reading (0734) 27279

MATCHBOX 1/32 Scale Cars

PK 301 Aston Martin Ulster 85p

PK 302 Bugatti Type 59 85p

PK 303 Porsche 917-10 85p

PK 304 Jaguar SS 100 85p

MATCHBOX 1/72 Scale Aircraft

PK 109 Junkers 188 55p

PK 110 Hawker Siddeley 125/600 55p

PK 111 Stuka Ju 87B 55p

PK 112 Fairey Swordfish 55p

PK 113 Messerschmitt 410 55p

PK 401 Heinkel 115 85p

PK 402 Vickers Wellington 85p

PK 403 Heinkel 111 85p

PK 404 Phantom 85p

MATCHBOX 1/72 Scale Aircraft

PK 20 Dassault Mirage IIIC 30p

PK 21 Messerschmitt 262 30p

PK 22 Thunderbolt 30p

PK 23 Hawker Tempest 30p

PK 24 Brewster Buffalo 30p

PK 25 Siskin 30p

PK 26 Henschel 126 30p

PK 27 Hawker Siddeley Hawk 30p

PK 107 Sky Servant 55p

PK 108 Lynx Helicopter 55p

MATCHBOX 1/76 Scale Military

PK 75 Humber Armoured Car 30p

PK 76 Puma Armoured Car 30p

PK 77 Wespe Self Propelled Gun 30p

PK 78 M16 Half Track 30p

PK 79 Chafe Tank M24 30p

PK 80 Jagd Panther Tank 30p

We also stock an extensive range of plastic kits by Tamiya, Airfix, Hasegawa etc., etc. Deliveries by return POST FREE on orders £1.50 and over add 15p orders up to £1.50. Personal shoppers welcome. Open to 1 pm Sundays.

AIRFIX magazine Easibinders

Easibinders to hold 12 copies of AIRFIX magazine are now available in two sizes: 10½" x 8" to hold the old format magazine; and 12½" x 8½" to hold the new, A4 format magazine. The larger size Easibinder is capable of holding copies of the old-size magazine, but not, of course, vice versa. Please specify which size you require when ordering.

Old size Easibinders cost £2.25 each including VAT and postage; New size Easibinders cost £2.60 net, £2.95 by post from the publisher.

To AIRFIX magazine, Easibinder Department, PSL Publications Ltd, Bar Hill, Cambridge CB3 8EL

Please send me special OLD/NEW size Airfix Magazine Easibinders immediately at £2.25/£2.95 each (delete as applicable). I enclose my cheque/postal order (not cash or stamps) for

_____ Signed _____

Name _____

Address _____

Please write clearly in block capitals

A2/76

Getting it regularly?

Wise readers make sure of getting their copy of Airfix Magazine each month by taking out an annual subscription. No more hunting bookstalls for the latest issue — have it delivered right to your front door. That way you make certain of not missing the article, review or advertiser's bargain you particularly want to see. Place your subscription now by using the form below.

To Airfix Magazine, Subscription Department, Surridge Dawson & Co (Productions) Ltd, 136/142 New Kent Road, London SE1

Please send my Airfix Magazine each month by post on publication for a 12 month period commencing with the _____ issue. I enclose my cheque/postal order (not cash or stamps) for £5.10 (postage included). (USA \$12.00)

_____ Signed _____

Name _____

Address _____

Please write clearly in block capitals

A2/76

Coming Soon Dropzone Normandy

Napier Crookenden

Military Book Club (US) Main Choice
Military Book Society (UK) Selection

Lt General Sir Napier Crookenden, KCB, DSO, OBE, one-time Commanding Officer of the 9th Parachute Battalion, brings a wealth of knowledge and experience to his account of the Allied airborne operation which prepared the way for the landings on 6th June 1944. His graphic detailed description of the fierce action fought on both flanks by the British and American airborne divisions is enhanced by many rare photographs.

8½" x 5¾" 304pp plus 48pp illustrations £4.95

Available at quality bookshops or through Mail Order Dept. (enclosing remittance plus 60p postage and packing) address below.

IAN ALLAN
Terminal House Shepperton TW17 8AS

AIRFIX-MRRC

**FOR YOUR AIRFIX
MOTORACE SETS
and
ACCESSORIES
and all
SLOT CAR RACING
EQUIPMENT**

Please send 10p for catalogue and price lists to MRRC Ltd., 29 Ashley Road, Boscombe, Bournemouth, Hampshire.

NAME _____

ADDRESS _____

To follow the success of *Waterloo Day* Arms & Armour Press mark the bicentennial of 1776 and the publication of *Atlas of the American Revolution* with a day devoted to:



1776-1865

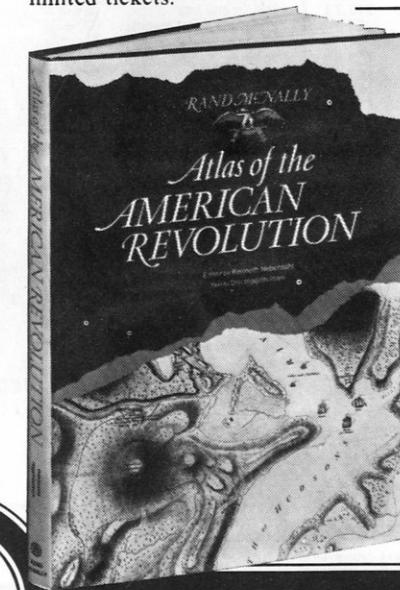
9.30 am to 5.30 pm
Saturday 27 March 1976
at the London Tara Hotel,
Wrights Lane, Kensington,
London W8.
Refreshments available.

Admission
Full Ticket — to lectures, film,
exhibition and wargame: £1.50.
Limited Ticket — to trade and society
stands and wargame only: 50p.

Advance ticket sales
To ensure admission to the lectures
and film, the "full tickets" will be sold
in advance. Seating in the lecture
theatre will be by numbered ticket
only. To ensure your seat write now
with £1.50 and foolscap S.A.E. to the
organisers: Arms & Armour Press,
2-6 Hampstead High Street, London
NW3.
Any unsold "full tickets" will be
placed on sale on the day. If you wish
you can also apply in advance for the
limited tickets.

- ★ **Military Costume of the Revolution**; by W. Y. Carman
- ★ **Weapons and Firepower, 1776-1865**: a forum introduced by F. W. Wilkinson. Panellists will include Major-General B. P. Hughes and Ian V. Hogg
- ★ **Burgoyne and the War of Independence**; by Major-General J. D. Lunt
- ★ **Stonewall Jackson** and the Shenandoah Valley 1862; by David G. Chandler
- ★ **A Battle of the Revolution**: Two 1½-hour wargame demonstrations by Donald Featherstone and Peter Gilder
- ★ **American Archive film** on the War of Independence and Civil War
- ★ **Trade and Society stands**, with exhibits, which will cover all subjects of interest to military modellers

Commemorative Day Book Plate
To mark the publication of the magnificent *Atlas of the American Revolution*, a Commemorative Day Book Plate will be issued, without charge, with copies of the book sold on the day. If you have obtained a book previously from your regular bookseller, bring with you a receipt and we will present you with a copy of the limited-issue book plate. No book plates will be available after the day of the event.



Atlas of the American Revolution

Edited by Kenneth Nebenzahl; text by Don Higginbotham.

This unique compilation provides the clearest and most decorative account of the American Revolution yet published. Its comprehensive coverage of the war makes it a valuable history source; and its sharp reproduction of beautifully drawn antique maps makes it worthy of note as an art volume. The fifty-four maps in the Atlas are reproduced in full colour with a remarkable degree of detail. From De Costa's map of Lexington and Concord to Major Sebastian Bauman's map of the surrender of Yorktown, they provide a unique cartographical record which brings the transatlantic struggle vividly to life.

Four maps present the theatres of war. These, along with a foldout chronological chart, organize the events into a clear picture of the what, where, and when of the numerous battles. Accompanying each map is a clearly written commentary describing the events portrayed. The map selection and descriptions are by Kenneth Nebenzahl, internationally known authority on antique maps; while Don Higginbotham, Professor of History at the University of North Carolina, provides a captivating narrative, and introduces the eight major sections of the Atlas.

Large format 15in x 11½in.
54 full-colour maps. 218 pages.
Over 90 illustrations. £15.95 net.



YOUR INTERNATIONAL MODEL MAIL ORDER HOUSE



Suppliers to the British and Overseas Governments



BMW FOR MAX KITS

US WWII Armoured Cavalry Scout Car £2.90
 British WWII V.C.M.P. Light Truck £3.20
 US M-6 37 mm A/tank gun carriage £2.20
 US 1 1/2 ton Personnel carrier £3.20
 US 3/4 ton Weapons carrier £2.60
 US Command and Reconnaissance Truck £2.60

IMAI GALLEONS HINCHLIFFE

1/160 Scale 25 mm
 Greek Warship 100BC £3.06
 Roman Warship 50BC £3.06
 Galeass £3.38

NEW ENSIGN

Town Class Cruisers £2.40
 Special Hood Design/Construction £2.70

HINCHLIFFE

30 mm DIORAMAS
 British Foot Guards Artillery 1815 £3.66

SEE LAST MONTH'S AIRFIX
 FOR LARGE LIST OF
 BOOKS FOR MODELLERS

A.F.V'S

HASEGAWA 1/72 Scale
 Daimler "A" car 37p
 Hunter "A" car 35p

SPECIAL OFFER

THE HUMBROL BADGER

MODEL 200 AIR BRUSH
 The set contains: 200 airbrush; airline power pack; connector, 4 jars; power pack; instructional leaflet. Was £19.40 now offered at only £13.00 plus VAT of £1.04. Postage £1.30 (two are post free). Order now whilst stocks last. (We have good supplies, but obviously they cannot last forever).

ORDER AT ONCE WHILE STOCKS LAST



AIR BRUSHES

Humbrol Modeller's Airbrush £3.01 comes in its own box and contains, airbrush, 2 jars, power pack connector, measuring cup, and instruction leaflet (no power pack).

Power pack for above: Standard refill 70p, Large refill £1.10. This is easy to use, for all models, built in paint and air flow controls gives a wide range of finishes.

BADGER SPRAYS & AIRGUNS

100XF Fine Line airbrush with cup £30.00
 1001L Fine Line airbrush with cup £30.00
 1501L Poster airbrush with cup £32.10

160XF Fine line gravity feed Airbrush £30.00

200EX Airbrush set without propellant £20.45

Spares for above: 20 oz. propellant £1.25
 12 oz. propellant 80p

COMPRESSOR with 1/4" pipe £44.00

Foot switch £4.00

6 ft. air hose £1.80

10 ft. air hose £2.25

Propellant on/off valve £1.25

Propellant air regulator £2.96

Tyre adaptor 84p

Jar gaskets, 3 18p

Air filter for use with compressor £8.00

FLATS F2 20p, F4 22p, F6 24p

ROUNDS R0 15p, R1 16p, R2 17p, R4 18p

MIXED SET OF 5 BRUSHES as packed 98p

VAT

Please add 8% to all orders including cost of postage and packing except books.

POSTAGE

Minimum Charge Up to £1 35p
 £1-£2 60p
 £2-£3 80p
 £3-£4 £1.00
 £4-£10 £1.20
 £10-£15 £1.30
 Over £15 Free

200, 100XF or 1001L need 65p each

NEW BOOKS

Saxon England, Embleton & Banting

Hardback £3.50

Paperback £1.95

The Crimean War 1853-56, Embleton

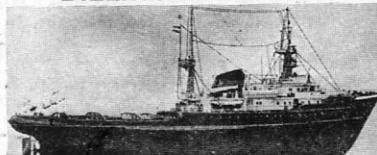
Hardback £3.50

Paperback £1.95

Reference books Armies of the Macedonian & Punic Wars. Covers period 350-150 BC £1.30

Armies and Enemies of Imperial Rome 150BC-AD600 £1.75

BILLING BOAT KITS



These are very complete and highly detailed models but the fittings are as necessary as the actual boat kit. Full instructions with each.

Boat	Fittings
Gina	£5.09
Hjelleen	£7.41
Jylland	£9.03
Dannebrog	£6.44
Lilla Dan	£5.79
Danmark	£9.72
Spec Denmark fittings	£4.17
Neptun	£6.95
Zwarte Zee	£9.03
Mercantile	£10.75
Mercantile mast	£12.59
Santa Maria	£4.63
Norske Love	£11.62
Norske Love sails	£17.73
Wasa	£8.00
Progress	£7.59
Progress masts	£11.82
Dragen	£6.02
Bohuslan	£10.14
Bluenose	£6.76
Sperwer	£9.40
Vikingskrib	£6.50
Krabbekutter	£6.44
Catty Sark	£10.56
Statenjacht	£11.99

RED SABLE BRUSHES

Gold Star Kolynski sable hair.

Sizes 00, 0 and 1

62p each

2 38p each

3 83p each

4 £1.25 each

5 £1.65 each

AIRCRAFT KITS

REVELL 1/72 Scale

Thunderchief	55p
Spad X111	26p
Fokker D-VII	26p
F8E Crusader	69p
S.E.5A	26p
A-3B Skywarrior	69p
Nieuport 28	26p

1/32 Scale £2.55 each

Phantom F4F	55p
Mirage 5J Israeli	55p

MATCHBOX 1/72 Scale

Hart	28p
HE 111	79p
Wellington	79p
Phantom	79p
HE.115	79p

AIRMODEL

Arado Ar 96 1/72 Scale

FROG 1/72 Scale

Westland Lynx	60p
Barracuda	28p
Fairey Gannet	28p
Gipsy Moth	28p
Lightning F.6	69p
Tupolov	38p
Maryland	36p
Mitchell	48p
Vengeance	22p
Martin Marauder	48p

K.P. 1/72 (Czechoslovakian)

Letov S.328	52p
L.29 Delfin	52p
Avia 8.35	52p
Ig 19	52p
Avia B.534	52p
Avia B.33	52p
Mig 17	52p

MANIA

Nate 1/48 Scale

Type 99 Lilly 1/72 Scale

£2.40
£3.00

FALCON FIGURES

54 mm £1.30 each

Greek Hoplite 490BC Corinthian Helmet, full Hoplite armour using spear

Greek Hoplite 490BC Thracian Helmet, full armour with spear

as above but with kopis (slashing spear)

Persian Immortal 490BC

Persian Infantryman with bow, shield spear

Gallic Warrior 1st Century AD with axe

Gallic Warrior 1st Century AD with javelin

Roman Legionary Lurica Segmentata fencing with Gladius

as above but throwing pilum

Roman Auxiliary, mail shirt armed javelin

JAPANESE SWORDS

MIDORI 1/3 Scale

Two in one box (long and short swords)

Yagyu Jyubei's swords £2.00

Araki Mataemon's swords £2.00

Kenshin's swords £2.00

Miyamoto Musashi's swords £2.00

Toyotomi Hideyoshi's swords £2.00

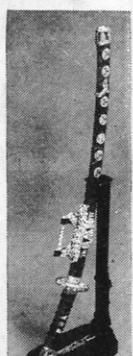
and the original three single swords

Tokugawa Iusasu's sword £1.65

Takada Shingen's sword £1.65

Yoshitsune's sword £1.65

Order now for First delivery which should be the turn of the year.



PLASTICARD — WHITE

10 thou per sheet

15 thou "

20 thou "

30 thou "

40 thou "

60 thou "

10p

12p

14p

21p

27p

40p

10p</